



H10E

Innovative solutions / biochemistry methods and reagents from Interchim

■ Multifunctional cross-linkers

crosslinking reagents are available with 3, 4, 5, 6 and 8 arms terminated non reactive or by functional groups. These branched crosslinkers can be selectively coupled by one or more arm to generate multimers. Below are only reference examples, please inquire for any desired functional group (Amine, Carboxyl, Hydroxyl, Sulfhydryl, Alkyne, succinimidyl, Maleimide, Azide, ..., as well as groups protected by Fmoc, tBut, Boc,...).

Spacing structures made of PEG/PEO (PolyEthyleneGlycol, or PolyEthyleneOxy) confers high hydrophilicity, and provide adjustable lengths.

Applications: preparation of multivalent ligand complexes, dendritic or molecular aggregates, drug delivery systems, PK/serum Half-life modification
vaccines, self-repairing polymers (Wudl, F., et.al. (2002) Science 295, 1698),...

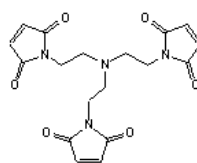
Multi Maleimide agents

Sulfhydryl reactive tris- and tetra maleimide reagents

TMAE (Mal-3)

tris-(2-Maleimidoethyl)amine; MW: 386.36; spacer: 10.3 Å

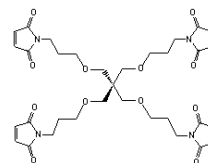
86685A, 50mg



TKMA (Mal-4)

tetrakis-(3-Maleimidopropyl)pentaerythritol; MW: 684.70

BU247A, 100mg



MAL-PEG₁₂-Tris(PEG₁₂-Tris(PEG₁₁)₃)

MW: 8323.87

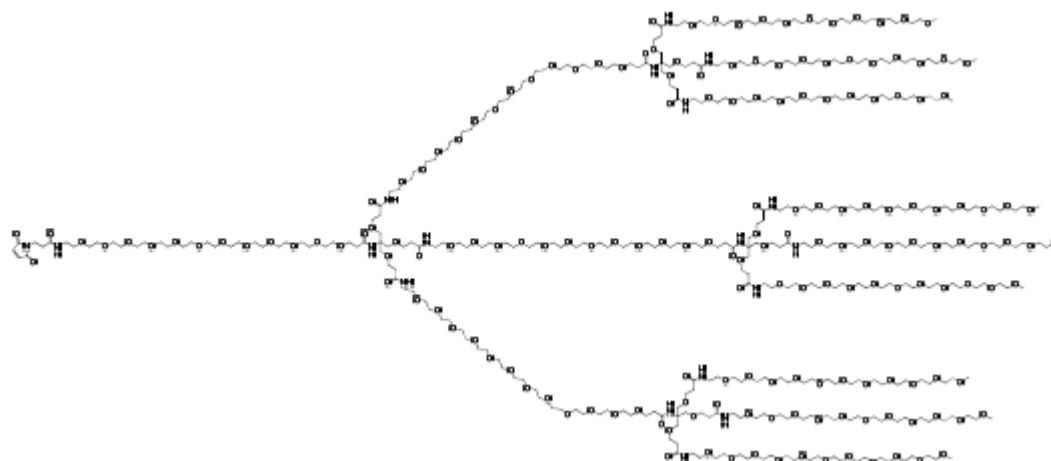
1L0570, 25mg

see structure below

MAL-PEG₂₄-Tris(PEG₂₄-Tris(PEG₂₄)₃)

MW: 15592.45

1L0570, 25mg



Much more branched maleimide PEGs available on [inquire](#)

See also below branched PEGs with hetero-functional groups (with Azide, Alkyne, protected groups...).

Multi NHS PEG agents

Amino reactive tri- and tetra functional crosslinking reagents; Can be selectively aminated to generate mixed multimers.
Applications: preparation of multivalent ligand complexes, dendritic or molecular aggregates

TSAT (NHS-3)

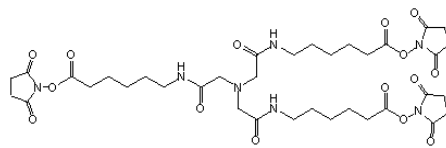
tris-Succinimidyl aminotriacetate; (99+%); MW: 482.36; Spacer: 4.2 Å.

L7962A, 250mg

LC-TSAT (Ic-NHS-3)

tris-Succinimidyl (6-aminocaproyl)aminotriacetate; MW: 821.83

BU243A, 50mg



NHS-4

tetrakis-(N-succinimidylcarboxypropyl)pentaerythritol; MW: 812.69

BU248A, 100mg

NH₂-PEG₁₂-Tris(PEG₁₂-Tris(PEG₁₁)₃)₃

MW: 8323.87

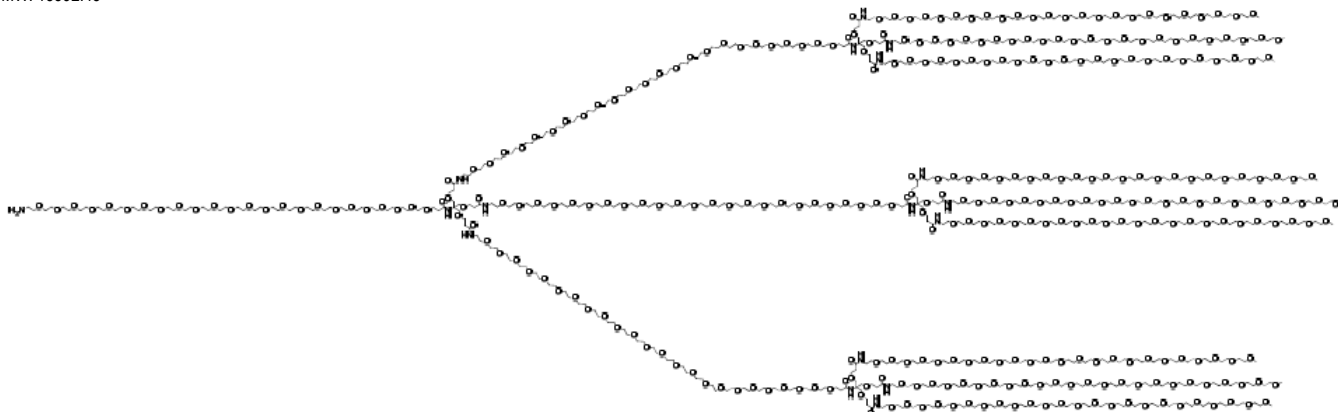
1L0590, 25mg

NH₂-PEG₂₄-Tris(PEG₂₄-Tris(PEG₂₄)₃)₃

MW: 15592.45

1L0560, 25mg

see structure below



Much more branched maleimide PEGs available on [inquire](#).

See also below branched PEGs with hetero-functional groups (with Azide, Alkyne, protected groups...).

Hetero-Multi-functional crosslinking agents

● Maleimide and NHS (sulfhydryl- and amino-reactive)

DMSI

Maleimido-3,5-Dissuccinimidyl Isophthalate; MW: 812.69

BU246A, 50mg

Reacts with one SH through the maleimide group, and to two NHS through succinimidyl groups.

● Maleimide and COOH

Bis-MAL-PEG₄-PEG₁₂-Lysine-Tris(mPEG₂₄)₃

MW: 8323.87

1L0610, 25mg

see structure below

Bis-MAL-PEG₄-PEG₁₂-Lysine-Tris(PEG₂₄-COOH)₃

MW: 15592.45

1L0620, 25mg

see structure below



Hetero-Multi-functional crosslinking reagents

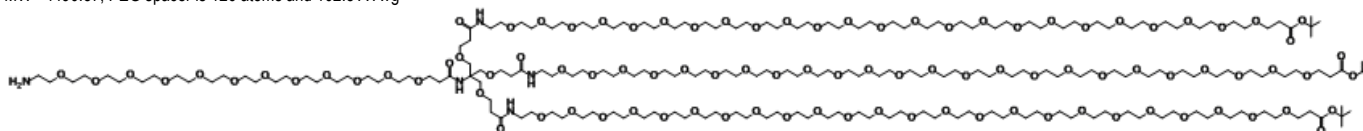
● Amino and Carboxyl

Amino-PEG₁₂-Tris(-PEG₂₄-acid)₃

MW= 4490.37; PEG spacer is 126 atoms and 102.8 Å Avg

1L0420, 25mg

1L0421, 100mg



Multi-Amino PEG agents

See below section with other basic [4-arm agents](#)

NH₂-PEG₁₂-Tris(PEG₁₂-Tris(PEG₁₁)₃)₃

MW: 8323.87

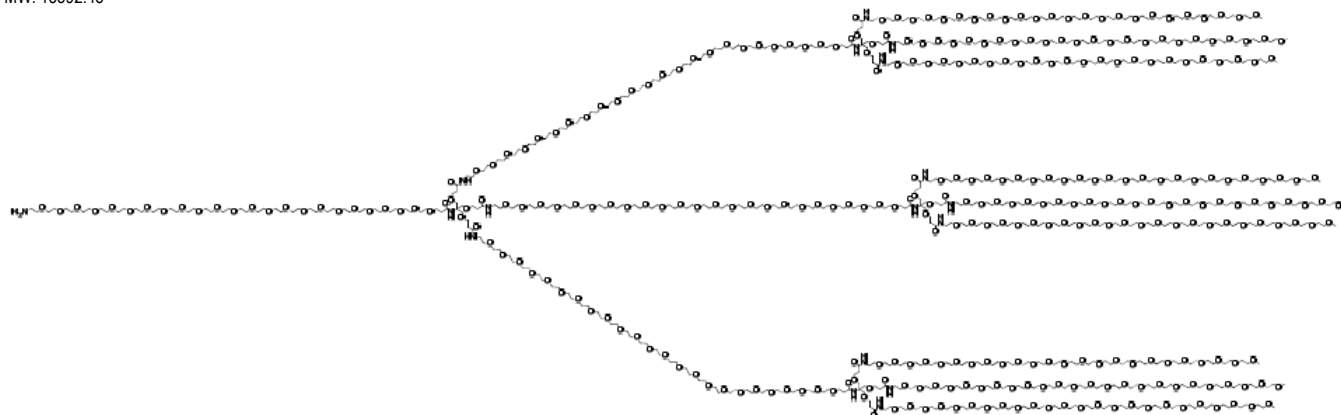
1L0590, 25mg

NH₂-PEG₂₄-Tris(PEG₂₄-Tris(PEG₂₄)₃)₃

MW: 15592.45

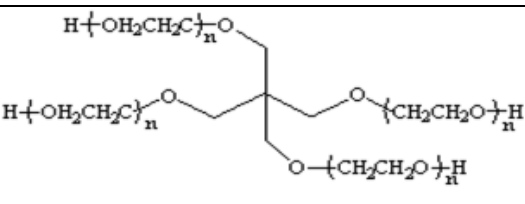
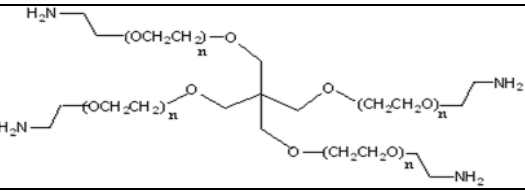
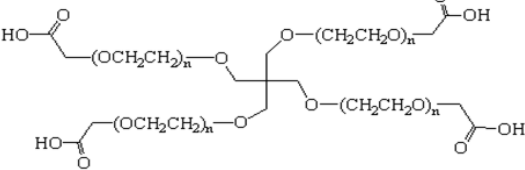
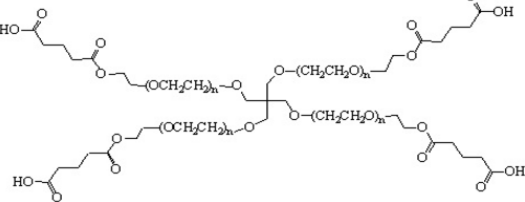
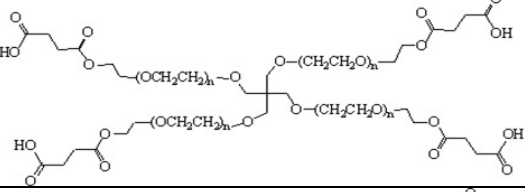
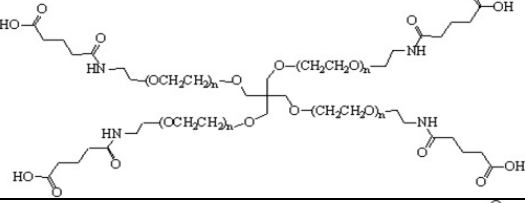
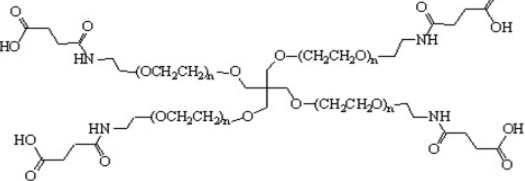
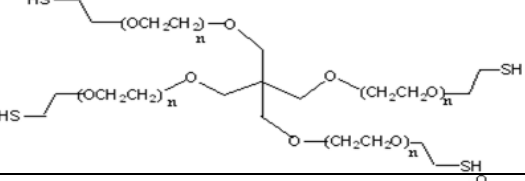
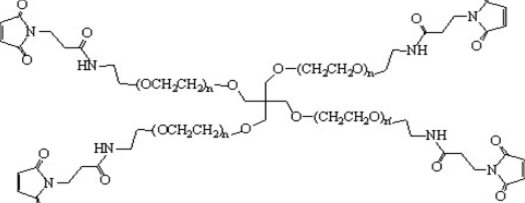
1L0560, 25mg

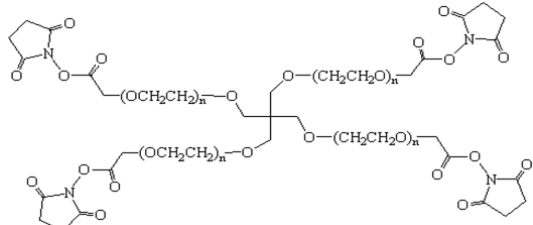
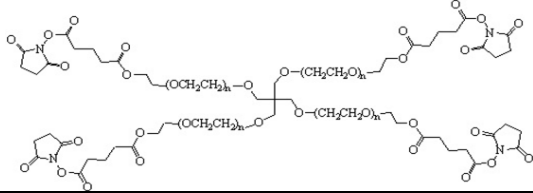
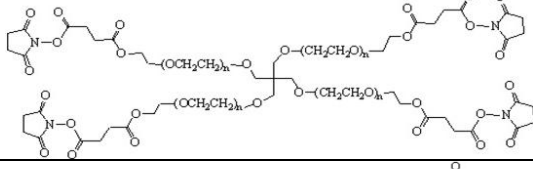
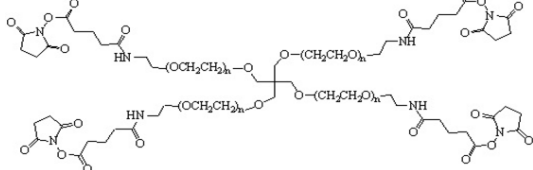
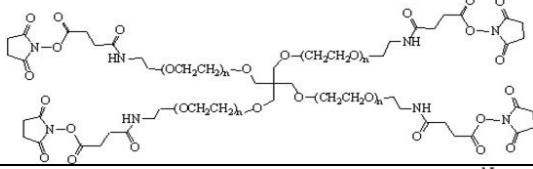
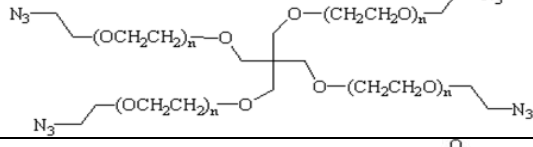
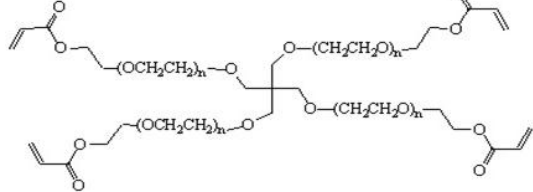
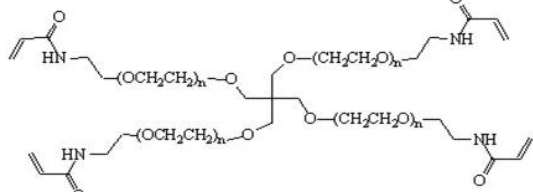
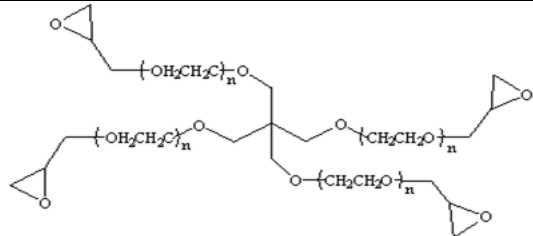
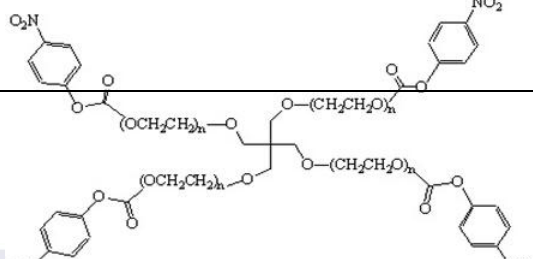
see structure below



4-Arm linkers – Amine, Carboxyl, NHS, MAL, Azide, Epoxy, Acryl, ...

II

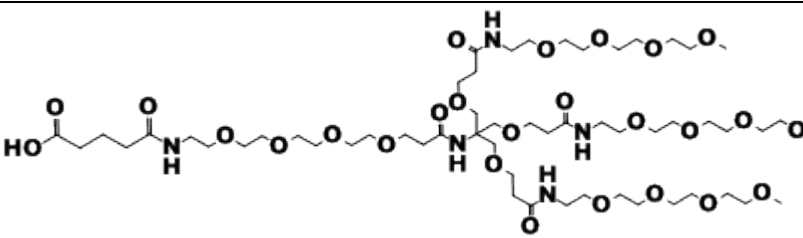
4-Arm PEG-OH			
ARM-4100	4-Arm PEG-OH, 2k	1g 5g	
ARM-4101	4-Arm PEG-OH, 10k		
ARM-4102	4-Arm PEG-OH, 20k		
4-Arm PEG-Amine			
ARM-4130	4-Arm PEG-Amine, 2k		
ARM-4131	4-Arm PEG-Amine, 10k		
ARM-4135	4-Arm PEG-Amine, 20k		
4-Arm PEG-Acid			
ARM-4180	4-Arm PEG-Acid, 2k	1g, 5g	
ARM-4181	4-Arm PEG-Acid, 10k		
ARM-4182	4-Arm PEG-Acid, 20k		
4-Arm PEG-GA			
ARM-4166	4-Arm PEG-GA, 2k	1g, 5g	
ARM-4167	4-Arm PEG-GA, 10k		
ARM-4168	4-Arm PEG-GA, 20k		
4-Arm PEG-SA			
ARM-4040	4-Arm PEG-SA, 2k	1g, 5g	
ARM-4042	4-Arm PEG-SA, 10k		
ARM-4045	4-Arm PEG-SA, 20k		
4-Arm PEG-GAA			
ARM-4050	4-Arm PEG-GAA, 2k	1g, 5g	
ARM-4052	4-Arm PEG-GAA, 10k		
ARM-4055	4-Arm PEG-GAA, 20k		
4-Arm PEG-SAA			
ARM-4060	4-Arm PEG-SAA, 2k	1g, 5g	
ARM-4062	4-Arm PEG-SAA, 10k		
ARM-4065	4-Arm PEG-SAA, 20k		
4-Arm PEG-Thiol			
ARM-4140	4-Arm PEG-Thiol, 2k	1g, 5g	
ARM-4141	4-Arm PEG-Thiol, 10k		
ARM-4145	4-Arm PEG-Thiol, 20k		
4-Arm PEG-MAL			
ARM-4150	4-Arm PEG-MAL, 2k	1g, 5g	
ARM-4151	4-Arm PEG-MAL, 10k		
ARM-4155	4-Arm PEG-MAL, 20k		

4-Arm PEG-SCM			
ARM-4185	4-Arm PEG-SCM, 2k	1g, 5g	
ARM-4186	4-Arm PEG-SCM, 10k		
ARM-4187	4-Arm PEG-SCM, 20k		
4-Arm PEG-SG			
ARM-4160	4-Arm PEG-SG, 2k	1g, 5g	
ARM-4161	4-Arm PEG-SG, 10k		
ARM-4165	4-Arm PEG-SG, 20k		
4-Arm PEG-SS			
ARM-4010	4-Arm PEG-SS, 2k	1g, 5g	
ARM-4012	4-Arm PEG-SS, 10k		
ARM-4015	4-Arm PEG-SS, 20k		
4-Arm PEG-GAS			
ARM-4020	4-Arm PEG-GAS, 2k	1g, 5g	
ARM-4022	4-Arm PEG-GAS, 10k		
ARM-4025	4-Arm PEG-GAS, 20k		
4-Arm PEG-SAS			
ARM-4030	4-Arm PEG-SAS, 2k	1g, 5g	
ARM-4032	4-Arm PEG-SAS, 10k		
ARM-4035	4-Arm PEG-SAS, 20k		
4-Arm PEG-Azide			
ARM-4191	4-Arm PEG-Azide, 2k	1g, 5g	
ARM-4192	4-Arm PEG-Azide, 10k		
ARM-4193			
4-Arm PEG-Acrylate			
ARM-4120	4-Arm PEG-Acrylate, 2k	1g, 5g	
ARM-4121	4-Arm PEG-Acrylate, 10k		
ARM-4125	4-Arm PEG-Acrylate, 20k		
4-Arm PEG-Acrylamide			
ARM-4110	4-Arm PEG-Acrylamide, 2k	1g 5g \$180 \$540	
ARM-4112	4-Arm PEG-Acrylamide, 10k		
ARM-4115	4-Arm PEG-Acrylamide, 20k		
4-Arm PEG-Epoxy			
ARM-4170	4-Arm PEG-Epoxy, 2k	1g, 5g	
ARM-4171	4-Arm PEG-Epoxy, 10k		
ARM-4175	4-Arm PEG-Epoxy, 20k		
4-Arm PEG-NPC			
ARM-4196	4-Arm PEG-NPC, 2k	1g, 5g	
ARM-4197	4-Arm PEG-NPC, 10k		

ARM-4198	4-Arm PEG-NPC, 20k		
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●Other similar 4-Arm linkers [□]

They differ for example by the PEG-branch structure

	4-Arm PEG-OH		
	Carboxyl-PEG ₄ -(mPEG ₃) ₃		
	Carboxyl-PEG ₄ -(mPEG ₄) ₃		
	Carboxyl-PEG ₄ -(mPEG ₈) ₃		
	Carboxyl-PEG ₄ -(mPEG ₁₁) ₃		
	Carboxyl-PEG ₄ -(mPEG ₁₂) ₃		
	Carboxyl-PEG ₄ -(mPEG ₂₄) ₃		MW: 1266.47; single compound; spacer is 43 atoms and 28 Å

Please [inquire](#) for derivatives available with functional groups (Amine, Carboxyl, NHS, MAL, Azide, Alkyl?...).

i.e. NHS-PEG₄-(m-PEG₁₂)₃-ester
t-boc-N-amido-PEG₃-amine

8-Arm PEG-OH			
ARM-8301	8-Arm PEG-OH, MW 10k	1g , 5g	
ARM-8302	8-Arm PEG-OH, MW 20k		
ARM-8304	8-Arm PEG-OH, MW 40k		
8-Arm PEG-Amine			
ARM-8111	8-Arm PEG-Amine, MW 10k	1g , 5g	
ARM-8112	8-Arm PEG-Amine, MW 20k		
ARM-8114	8-Arm PEG-Amine, MW 40k		
8-Arm PEG-Acid			
ARM-8331	8-Arm PEG-Acid, MW 10k	1g , 5g	
ARM-8332	8-Arm PEG-Acid, MW 20k		
ARM-8334	8-Arm PEG-Acid, MW 40k		
8-Arm PEG-GA			
ARM-8336	8-Arm PEG-GA, MW 10k	1g , 5g	
ARM-8337	8-Arm PEG-GA, MW 20k		
ARM-8339	8-Arm PEG-GA, MW 40k		
8-Arm PEG-SA			
ARM-8011	8-Arm PEG-SA, MW 10k	1g , 5g	
ARM-8012	8-Arm PEG-SA, MW 20k		
ARM-8014	8-Arm PEG-SA, MW 40k		
8-Arm PEG-GAA			
ARM-8021	8-Arm PEG-GAA, MW 10k	1g , 5g	
ARM-8022	8-Arm PEG-GAA, MW 20k		
ARM-8023	8-Arm PEG-GAA, MW 40k		
8-Arm PEG-SAA			
ARM-8031	8-Arm PEG-SAA, MW 10k	1g , 5g	
ARM-8032	8-Arm PEG-SAA, MW 20k		
ARM-8034	8-Arm PEG-SAA, MW 40k		
8-Arm PEG-SCM			
ARM-8341	8-Arm PEG-SCM, MW 10k	1g , 5g	
ARM-8342	8-Arm PEG-SCM, MW 20k		
ARM-8344	8-Arm PEG-SCM, MW 40k		
8-Arm PEG-SG			
ARM-8346	8-Arm PEG-SG, MW 10k	1g , 5g	
ARM-8347	8-Arm PEG-SG, MW 20k		
ARM-8349	8-Arm PEG-SG, MW 40k		
8-Arm PEG-SS			
ARM-8041	8-Arm PEG-SS, MW 10k	1g , 5g	
ARM-8042	8-Arm PEG-SS, MW 20k		
ARM-8044	8-Arm PEG-SS, MW 40k		
8-Arm PEG-GAS			
ARM-8051	8-Arm PEG-GAS, MW 10k	1g , 5g	
ARM-8052	8-Arm PEG-GAS, MW 20k		
ARM-8054	8-Arm PEG-GAS, MW 40k		
8-Arm PEG-SAS			
ARM-8061	8-Arm PEG-SAS, MW 10k	1g , 5g	
ARM-8062	8-Arm PEG-SAS, MW 20k		
ARM-8064	8-Arm PEG-SAS, MW 40k		
8-Arm PEG-Thiol			
ARM-8351	8-Arm PEG-Thiol, MW 10k	1g , 5g	
ARM-8352	8-Arm PEG-Thiol, MW 20k		
ARM-8354	8-Arm PEG-Thiol, MW 40k		
8-Arm PEG-MAL			
ARM-8361	8-Arm PEG-MAL, MW 10k	1g , 5g	
ARM-8362	8-Arm PEG-MAL, MW 20k		

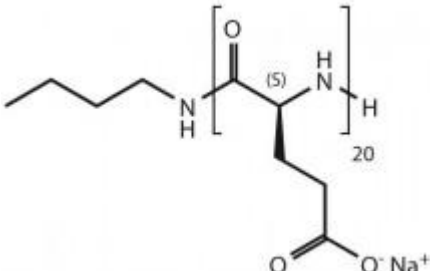
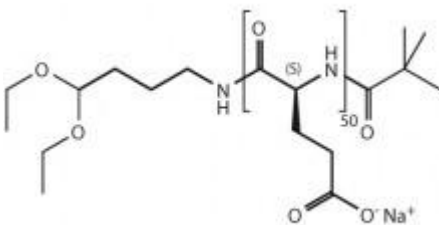
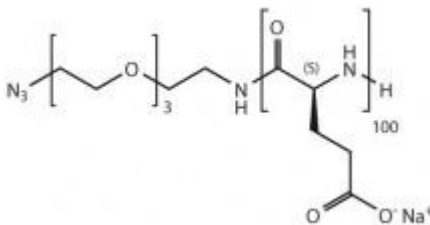
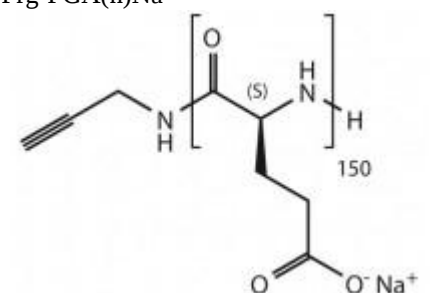
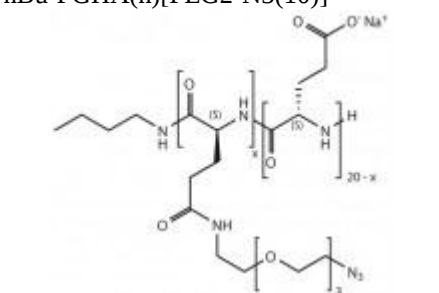
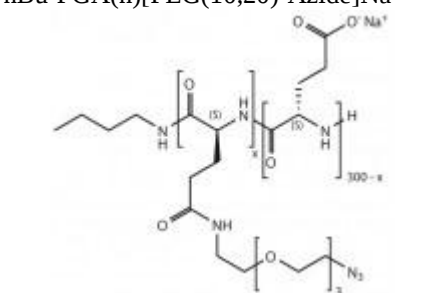
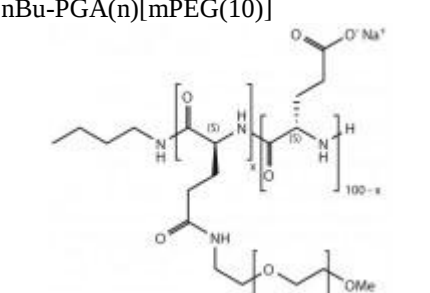
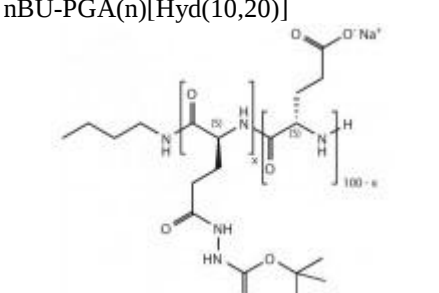
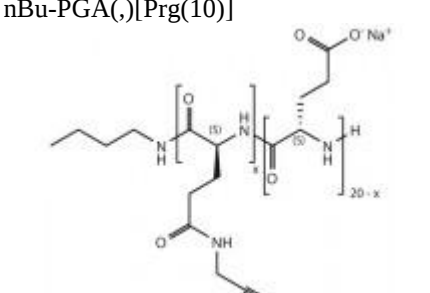
ARM-8364	8-Arm PEG-MAL, MW 40k		
8-Arm PEG-Azide			
ARM-8381	8-Arm PEG-Azide, MW 10k	1g , 5g	
ARM-8382	8-Arm PEG-Azide, MW 20k		
ARM-8384	8-Arm PEG-Azide, MW 40k		
8-Arm PEG-Alkyne			
ARM-8386	8-Arm PEG-Alkyne, MW 10k	1g , 5g	
ARM-8387	8-Arm PEG-Alkyne, MW 20k		
ARM-8389	8-Arm PEG-Alkyne, MW 40k		
8-Arm PEG-Acrylate			
ARM-8321	8-Arm PEG-Acrylate, MW 10k	1g , 5g	
ARM-8322	8-Arm PEG-Acrylate, MW 20k		
ARM-8324	8-Arm PEG-Acrylate, MW 40k		
8-Arm PEG-Acrylamide			
ARM-8326	8-Arm PEG-Acrylamide, MW 10k	1g , 5g	
ARM-8327	8-Arm PEG-Acrylamide, MW 20k		
ARM-8328	8-Arm PEG-Acrylamide, MW 40k		
8-Arm PEG-Epoxyde			
ARM-8371	8-Arm PEG-Epoxyde, MW 10k	1g , 5g	
ARM-8372	8-Arm PEG-Epoxyde, MW 20k		
ARM-8374	8-Arm PEG-Epoxyde, MW 40k		
8-Arm PEG-NPC			
ARM-8377	8-Arm PEG-NPC, MW 10k	1g , 5g	
ARM-8378	8-Arm PEG-NPC, MW 20k		
ARM-8379	8-Arm PEG-NPC, MW 40k		

Poly AminoAcids

Poly AminoAcids such as Lysine, Glutamic acid, Ornithine, provide useful polymeric backbones for many applications including crosslinking application, functionalization, coating.

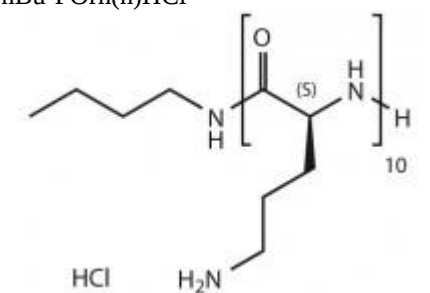
Poly Glutamic Acids (PAG) ^{II}

Example structures. Please [inquire](#) for details.

nBu-PGA(n)Na  (n=20-50-100-150-200-300)	Aldehyde-PGA(n)-tBu  (n=20-50-100-150-200-300)	N3-PGA(n)[Na]  (n=20-50-100-150-200-300)
Prg-PGA(n)Na  (n=20-50-100-150-200-300)	nBu-PGHA(n)[PEG2-N3(10)] 	nBu-PGA(n)[PEG(10,20)-Azide]Na 
nBu-PGA(n)[mPEG(10)] 	nBu-PGA(n)[Hyd(10,20)] 	nBu-PGA(n)[Prg(10)] 

Poly Ornithines ^{II}

Example structures. Please [inquire](#) for details.

nBu-POrn(n)HCl  (n=10-30-50-100-150-200-300)		
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Poly Lysines

Please [inquire](#)

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 - **PEGylation reagents** (conjugation reagents, linkers and building blocks) ^(PH)
 - **SAM reagents** (Self-Assembled Monolayers for surface modification) ^(PH)
 - **SDA reagents** (effective photo reactions) ^(PH)
 - **STELLA labeling** (azocycloaddition reactions) ^(PH)
 - **Gold nano-particules and materials**
 - **Carbone nanotubes**
 - **ITO slides** ^(PH)
-
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