

FT-DZ3531

mPEG linkers & modifiers (mono-fonctionnel PEO & PEG reagents)

Products Description

PolyEthylene Glycol (**PEG**, also known as **PEO**: PolyEthylOxy) is a convenient structure used to functionalize biomolecules and supports. It is available in a variety of lengths, providing a flexible spacer, and it is highly hydrophilic. These features are taken to good account to create conjugates of affine probes, fluorescent or enzymatic markers, peptides, supports like polystyrene plates, resins, agaroses... PEG have found great application to create biomaterial, as drug delivery systems, hydrophilic gels, special coated surfaces, biocaptors, vaccines...

PEG reagents are available with a variety of reactive groups, functional groups or labels:

- [with one group](#), with 2 groups (identical = [homobifunctional](#); different: [heterobifunctional](#)) and more groups ([multifunctional](#)) that can be used for conjugations.
- with labels or ligands: [biotin](#), [Fluorescein](#), and [DSPE](#), for detection, probing or binding applications.

[mPEG linkers - Monofunctional](#)

• Please see the technical notices for information about reactivity of each functional group

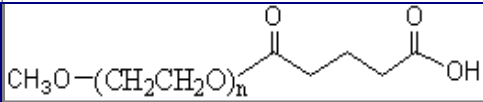
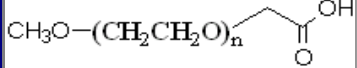
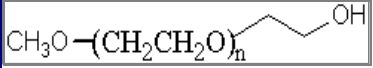
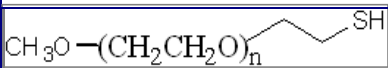
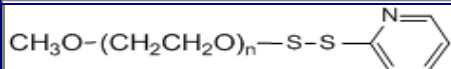
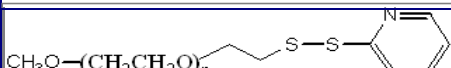
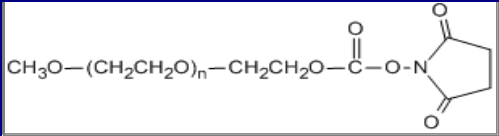
Storage: -20°C (M, J, I)

(some may be stored at room temperature (Z) or +4°C (L, K), but -20°C is recommended for long-term storage)

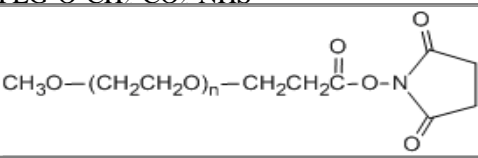
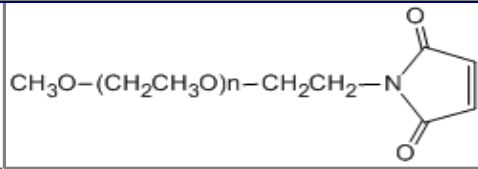
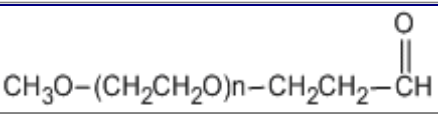
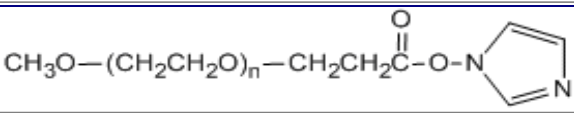
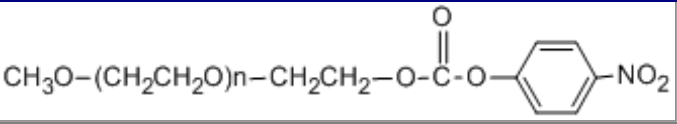
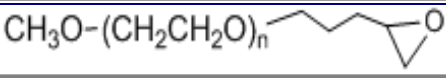
Functional group	Reactivity •	
NH ₂ (amine)	Poor/ COOH via EDC	Z
COOH (carboxyl)	Poor/Amines via EDC	Z
CHO (aldehyde)	Amines, HyNic	K
SH (thiol)	Thiols	K
OH (hydroxyl)	poor	Z
NHS (Succinimidyl, SE, and others: SMC, SVA, GS, SPA, SS)	Amines (*)	K/M
CDI (Carbonyl Imidazole)	Amines	
Tosyl	Amines	
NPC (NitroPhenyl Carbonate)	OH & Amines	
Maleimidyl	SH (*)	M
OPSS (o-pyridyl disulfid)	SH	M
Hydrazide	COOH via EDC	M
Azide	Most H	
Alkyne	Azide (Click chemistry)	
ISC (Isocyanate)	Amines (unspecific: + most H)	
Silane	hydroxyl group and triethoxyl silane	
Biotin	Avidin	K

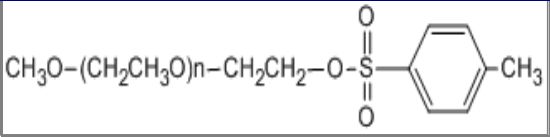
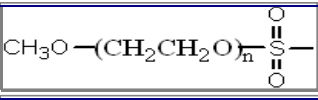
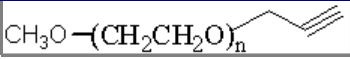
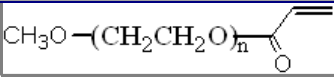
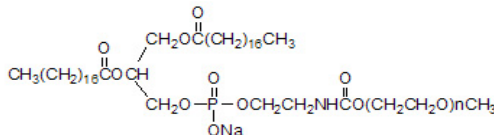
(*) privileged method in mild and aqueous solution

Product name cat.number	Cat.number Qty: 1g *	MW (g·mol ⁻¹)	*Ask for other quantities and bulk.
mPEG-Amine MethoxyPEG-NH ₂ ; PEG-Amine [N] (M) [B]	Inquire WT9820 WT9810 WT9800 WT9830 WT9840 WT9850 JQ5080	350 1 000 2 000 5 000 10 000 20 000 30 000 40 000	$\text{CH}_3\text{O}-(\text{CH}_2\text{CH}_2\text{O})_n-\text{CH}_2\text{CH}_2-\text{NH}_2$ See mPEG _x -Amine 5K #WT9801/FT- AYPMB0 ^[B]

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mPEG-COOH MethoxyPEG-Carboxylic acid, PEG-COOH [N] (z) *-200mg	B36C2* 350 B36C3* 550 B36C4* 750 WT9880 1 000 WT9870 2 000 WT9860 5 000 WT9890 10 000 WT9900 20 000 WT9910 30 000 B36C60 40 000	 See mPEG _x -COOH 5K #WT9861/FT- AYPMBO ^[B]	
mPEG-COOH (AA) MethoxyPEG Acetate; PEG acetate [C] 0	IO5210 5 000		
mPEG-Hydroxyl MethoxyPEG-OH, PEG-OH [C]	IO5030 1 000 IO5020 2 000 IO5010 5 000 IO5040 10 000 IO5050 20 000 IO5060 30 000	 See mPEG _x -Hydroxyl 5K #AWK7L/FT- AYPMBO ^[B]	
mPEG-SH MethoxyPEG-SH, Thiol PEG [N]	IO8420 350 HV7640 550 IO8430 750 WT9940 1 000 WT9930 2 000 WT9920 5 000 WT9950 10 000 WT9960 20 000 WT9970 30 000 IO8440 40 000	 See mPEG _x -Thiol 10K #B36EB1/FT- AYPMBO ^[B]	
mPEG-OPSS MethoxyPEG-Orthopyridyl disulfide [N] SH reactive	DZ5811 1 000 DZ5821 2 000 DZ5831 5 000 DZ5841 10 000 DZ5851 20 000 DZ5861 30 000		
mPEG-I-OPSS MethoxyPEG-ortho-pyridyldisulfide [C] 0	IO5220 5 000		
mPEG-NHS MethoxyPEG-Succinimidyl-Ester, SE-, CarboxyEster [N] Amine reactive [B]	DZ3510 1 000 DZ3520 2 000 DZ3530 5 000 DZ3540 10 000 AWKK70 12 000 DZ3550 20 000 DZ3560 30 000 HQ3580 40 000	 See mPEG _x -NHSuccinimide 5K #DZ3531/FT- AYPMBO ^[B]	
		Other succinimidyl esters are available upon request. They are also amine reactive, with following half life (pH8.0, 25°C)	
mPEG-Succinimidyl Carbonate (SC)	IO9710 2 000 to 20 000	PEG-O-CO ₂ -NHS <i>T</i> _{1/2} : 30.4'	
mPEG-Succinimidyl Propionate (SPA)	. 2 000 to 20 000	PEG-O-CH ₂ CH ₂ -CO ₂ -NHS <i>T</i> _{1/2} : 16.5'	
mPEG-Succinimidyl Valerate (SVA) [L]	IO9670 2 000 to IO9700 to 20 000	PEG-O-CH ₂ CH ₂ CH ₂ CH ₂ -CO ₂ -NHS <i>T</i> _{1/2} : 33.6' (<i>T</i> _{1/2} : 9.8' @pH8.5, 3.1' @pH9.0 and ~56sec @pH9)	
mPEG-Succinimidyl Glutarate	IO5080 2 000	PEG-O ₂ C-CH ₂ CH ₂ CH ₂ -CO ₂ -NHS <i>T</i> _{1/2} : 17.6'	

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(SG) [L]		to 20 000	
mPEG-Succinimidyl Succinate (SS) [L]			PEG-O ₂ C-CH ₂ CH ₂ -CO ₂ -NHS <i>T</i>_{1/2}: 9.8
mPEG-Succinimidyl Carboxymethyl (SCM) [N]	IO5070	2 000 to 20 000	PEG-O-CH ₂ -CO ₂ -NHS <i>T</i>_{1/2}: 0.75' 
mPEG-Maleimide MethoxyPEG-Maleimide [N] (L) SH reactive	DZ5751 DZ5761 DZ5771 DZ5781 DZ5791 DZ5801 GV7340	1 000 2 000 5 000 10 000 20 000 30 000 40 000	
mPEG-Aldehyde MethoxyPEG-CHO, PEG-Aldehyde [N] (Z) Amine reactive	Inquire WT8930 WT8920 WT8910 WT8940 WT8950 WT8960 KV8510	250 to 750 1 000 2 000 5 000 10 000 20 000 30 000 40 000	 See analog CH2 #AYR1B0(350-5K-40K) U ,
mPEG-Azide MethoxyPEG-N ₃ , Azide - PEG [N]	WU0000 WT9990 WT9980 WU0010 WU0020 WU0030	1 000 2 000 5 000 10 000 20 000 30 000	CH ₃ O-(CH ₂ CH ₂ O) _n -CH ₂ CH ₂ -N ₃ See Click conjugation protocols at FT-FY2780
mPEG-Hydrazide Hydrazide-PEG; Methoxy-Hydrazide [N]	WU0060 WU0050 WU0040 WU0070 WU0080 WU0090	1 000 2 000 5 000 10 000 20 000 30 000	+ CH ₃ O-(CH ₂ CH ₂ O) _n -CH ₂ CH ₂ -NHNH ₂ See oxo analog #AYPMB0(5K) U , PEO analog #AYQU01 U , and HomoBiFunctionnal PEG Hydrazide ^[WU0101]
mPEG-CDI PEG-Carbonyl Imidazol, CDI-PEG [N] Amine reactive	WT8990 WT8980 WT8970 WT9000 WT9010 WT9020	1 000 2 000 5 000 10 000 20 000 30 000	 Inquire for availability
mPEG-NPC MethoxyPEG-Nitrophenyl Carbonate [N] OH and Amine reactive (M)	See #WT9090 (5K) U .	1 000 2 000 5 000 10 000	
mPEG-ISC (NCO) mPEG-Isocyanate; PEO-Isocyanate [N] OH and Amine reactive	WT9150 WT9140 WT9130 WT9160 WT9170 WT9180	1 000 2 000 5 000 10 000 20 000 30 000	CH ₃ O-(CH ₂ CH ₂ O) _n -CH ₂ CH ₂ -N=C=O
mPEG-Epoxyde Epoxide mPEG - PEO-Epoxyde [N]	WT9210 WT9200 WT9190	1 000 2 000 5 000	

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OH and Amine reactive	WT9220	10 000	
	WT9230	20 000	
	WT9240	30 000	
mPEG-Tosyl Tosyl mPEG - PEO-Tosyl [N]	WT9050	1 000	
	WT9040	2 000	
	WT9030	5 000	
	WT9050	10 000	
	WT9060	20 000	
	WT9070	30 000	
mPEG-Mesylate mPEG- Mesylate, PEO- Mesyl [C]	IO5190	5 000	
mPEG-Alkyne Alkyne PEO; PEO-CH2-CCH [N]	FO2470	5 000	
	FO2480	10 000	
	IO5250	20 000	
mPEG-Acrylate Acryl - PEO [C]	IO5200	5 000	
	CV8270	20 000	
	CV8250	30 000	
mPEG-Silane Silane PEO, 350/550/750Da, 1/2/5/10KDa [N]	GV7380	750	See details and more products at FT-LO5310
	GV7350	10 000	
mPEG-DSPE	KV5060	750	
	KV5070	1 000	
	KV5080	2 000	
	KV5090	5 000	
	KV5100	10 000	
	KV5110	20 000	
	KV5120	30 000	
	KV5130	40 000	

Related / associated products and documents

See [BioSciences Innovations catalogue](#) and [e-search tool](#).

- mPEG Silane products: FT-[LO5310](#)⁰

PEO reagents: Synthetic PEG products (PEO₃ to PEO₃₆) :

- Heterobifunctional crosslinkers: NHS-MAL reagents, i.e. [NHS-PEO-MAL AL6581](#) and SMCC [17412A](#)
- Homobifunctional crosslinkers: NHS-NHS reagents, i.e. [NHS-PEO-NHS BH8811](#) and DSS [54940A](#)
- Homobifunctional crosslinkers: MAL-MAL reagents, i.e. [MAL-PEO-MAL L7736A](#) and BMOE [L7730A](#)
- PEO Linkers & modifiers: MAL-COOH [AZ4170](#) and BMPA [43064A](#);
NHS-PEG-COOH [AN1280](#); mPEG-NHS [DZ3531](#) and others (-SH, -OH,...)
- PhotoActivable (PA) crosslinkers: SH and PA reactive i.e. SCBP #[B11361](#),....

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.

For any information, please ask : Uptima / Interchim; Hotline : +33(0)4 70 03 73 06

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