FT-LO5312



PEGylation silane reagents (for Glass or silicone surface modification)

Products Description

Silane functionalized PEGs PolyEthyleneGlycol chains), PEG-Si, can be used to modify glass, silica, silicone and other surfaces via the reaction between hydroxyl group and triethoxyl silane. They can thus functionalize these support with groups that will confer other physico-chemical properties, such a amine, COOH, or SH, Maleimide, succinimidyl (NHS), and Biotin. Hence

-pegylation can greatly suppress the non-specific binding of charged molecules to the modified surfaces. -one can prepare 'activated' supports that can be further treated (conjugation, coating, SAM reagents), and used typically in detection systems such as biocaptors, microscopy slides, microarrays,... They have wide applications for medical devices, biomedical/ biological microelectromechanical systems⁽⁾ and biocompatible material development. Other applications include special optical lenses, purification,...

Product name	Cat.number	MW	
cat.number	<u>Oty</u> : ^{0-100mg}	$(g \cdot mol^{-1})$	
	2-1g	(8 1101)	
	3-5g		
Silane-mPEG			
mPEG-Silane	GV7362	350	
(L,M) PG1-SL	GV7372	550	
BN	GV7382	750	
	007022	1 000	
	EV4982	2 000	\ /n
	WT9712	3 400	
	DY8032	5 000	Also available :
	GV7352	10 000	MonoEthoxy Silane mPEG #PG1-SL1
	AWKI52	20 000	DiEthoxyl Silane mPEG #PG1-SL2
	B2ZUM2	30 000	TriEthoxyl Silane mPEG #B6BL61 (2K) PG1-SL-
	B2ZUN2	40 000	
Silane-PEG derivatives			
Silane-PEG _x -COOH (M)	Inquire	600Da	/
(L,M) PG2-CASL	AWKI72	1 000	o 0/
	GV7332	2 000	
	WT9742	3 400	
	GV7322	5 000	
	LO5312	10 000	/ 0 0
			Also available :
			MonoEthoxyl Silane PEG Acid #AWK7Q1 (5K) PG2-CASL1
			DiEthoxy Silane PEG Acid #AWJTY- (5K) PG2-CASL2
Silane-PEG _x -Amine (M)	Inquire	1 000	
(L,M) PG2-AMSL BN	WT9702	2 000	х 0 ([/] н
DIN	DZ5162	3 400	\sim si \sim
	DZ5382	5 000	$-0 \sim 1 \sim 1 \sim 10 \sim 10$
	DZ5392	10 000	/~ `` /n
	Inquire	20 000	Also available :
			MonoEthoxy Silane PEG Amine #AWK7N1 (5K) PG2-AMSL1
			DiEthoxyl Silane PEG Amine #AWK/N1 (5K) PG2-AMSL1
Silane-PEG _x -Maleimide (M)	Inquire	1 000	Dieutoxyi Shahe PEG Alline #Awji wi (SK) PG2-AMSL2
(M) PG2-MLSL	GV7312	2 000	
	WT9722	2 000 3 400	
	FO9492	5 400 5 000	
	FO9492 LO4662	5 000 10 000	
	LO4002	10 000	Also available:
			AISO availault.

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Product name	Cat.number	MW	
cat.number	<u>Qty</u> : ^{0-100mg}	$(g \cdot mol^{-1})$	
	2-1g		
	3-5g		
			MonoEthoxy Silane PEG Maleimide # () PG2-MLSL1
	- ·		DiEthoxyl Silane PEG Maleimide # (5K) PG2-MLSL2 >
Silane-PEG _x -NHSuccinimide (M) (M) PG2-NSSL	Inquire	200 - 400	
(M) PG2-NSSL	Inquire	600 - 800	
	B36M82	1 000	\searrow si \land \land \land \land \land \land \land \land
	GV7262 WT9732	2 000 3 400	-0^{\prime} \sim
	GV7252	5 400 5 000	
	LO8212		Also available:
	AWKIA2		MonoEthoxy Silane PEG NHSuc #AWK7S1 (5K) PG2-NSL1
	11 10 111112	20 000	DiEthoxyl Silane PEG NHSuc #PG2-NSSL2
Silane-PEG _x -DBCO (M)	Iniquire	1 000	
(M) PG2-SLTH	inquite	to	
See DBCO-PEG ₄ -TriEthoxy-SILANE		20 000	H QQ
#BFXLG1			
			" "\
Silane-PEG _x -Azide (N3) (M)	Inquire	1 000	See
(M)		to	AZIDE-PEG ₄ -TriEthoxy-SILANE #BFXN31
		20 000	AZIDE-PEG5-TriEthoxy-SILANE #BFXN21
Silane-PEG _x -SH (M)	WT9750	3 400	
(M) PG2-SLTH			Hudrowd DEC Silone
Ask for other functional groups			Hydroxyl -PEG _x -Silane mPEO ₆ -Silane
			Acrylate-PEG _x -Silane
			Alkyne-PEG _x -Silane
			OPSS-PEG _x -Silane
Silane-PEG _x -Biotin	ANEZD2	200	
(K,M) PG2-BNSL	IV2272	1 000	
	GV7282	2 000	
	WT9712	3 400	
	GV7272	5 000	
	LO5322	10 000	110 0.00
Silane-PEGx-FITC	B8CJE2	1000	HO O OH
	B8CJD2	2000	
	AWKI82	5000	
Ask for other other labels and ligands:			3-ArmPEG _x -(1Silane-2Biotin)
			Silane-PEG ₄ -Biotin Silane-PEG ₆ -Biotin
			Monoethoxylsilane-PEG-Biotin
			DMPE-PEG _x -Silane
			DSPE-PEG _x -Silane
			CLS-PEG-Silane(Cholesterol)

• Physical Properties:

Appearance: Off white solid or viscous liquid depending on molecular weight. Solubility: Soluble in regular aqueous solution (H₂O) as well as most organic solvents (DMSO).

• Storage Conditions:

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Store: -20°C, desiccated. Silane PEG tends to hydrolyze from moisture. Avoid frequent thaw and frozen. (M)

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• Reaction Procedures:

Generally, silane PEG is first dissolved in a mixture of ethanol/water solution, then allow the solution to contact with oxidized glass or silica surface for 30 min to 2 hours. Under this condition, silane PEG should bind to the material covalently.

See the technical notice for each functional group ^[XLcrl].

- Materials Required: Pegylation solution: Ethanol/water (w/w, 95%/5%); Silane PEG stock solution, 10~50 mg/mL in pegylation solution, prepare in fresh. Washing solution: Distilled water.
- Reaction Steps:
- 1. Dissolve targeted materials in Pegylation buffer.

2. Add silane PEG stock solution to the targeted conjugation materials with the final concentration keep at least 10 mg/mL. 10~50 molar excess of silane PEG needed for optimal conjugation;

- 3. Allow mixture agitates at room temperature for 30 min at room temperature or 2 hours at 4 -20 0C.
- 4. Wash out unreacted materials either by distilled water.

• Related reagents AZIDE-PEG₄-TriEthoxy-SILANE #BFXN31 AZIDE-PEG₅-TriEthoxy-SILANE #BFXN21

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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