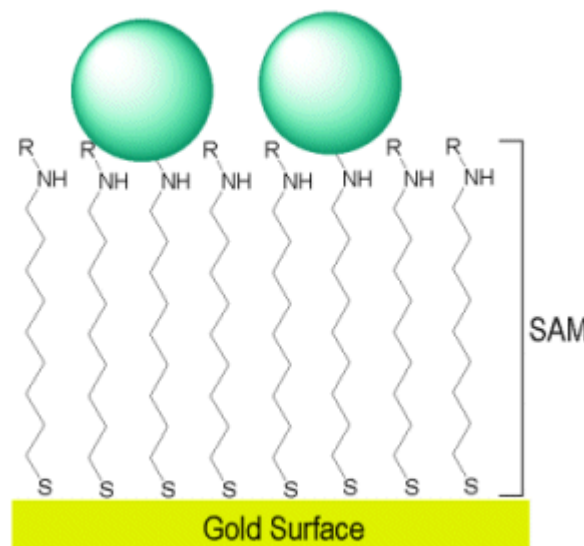


SAM : Self-Assembled Monolayers reagents

SAM reagents assembly spontaneously in uniform uni-directional and stable layers on a solid surface. Formed Self-Assembled Monolayers (SAMs) are crystalline chemisorbed organic single layers formed on a solid substrate, typically thiol compounds and gold that are well-established to prepare biosensors surfaces.

Research applications:

- transfer mechanisms of proteins molecular layers
- biosensors, microarrays and other detection systems
- surface plasmon resonance (SPR)
- quartz crystal microbalance (QCM)
- adhesive interactions and friction imaging ("microscopy Chemical Force Microscopy")
- electrochemical captors, optical industry



[More technical information and applications](#)

SAM reagents are available with various functional groups and chain lengths.

Aminoalkanethiols are utilized for the modification of a gold surface to introduce amino groups on it. The amino group is usually modified with amine-reactive materials, such as protein molecules or biomaterials, to functionalize the gold surface. The modification of a gold substrate with SAMs of **N-Fmoc aminoalkanethiols** may be utilized to avoid amino group - gold surface interactions and to develop the sensor-chip highly regulated by photopatterning.

Carboxyalkanethiols are utilized for the modification of a gold surface to introduce carboxylic groups on it. The carboxylic group is often converted to activated N-hydroxysuccinimide ester, to conjugated to amines of biomaterials.

Carboxyalkyldisulfides are oxidized compounds of carboxyalkanethiols and are reported to form similar SAMs, but less stinking and more stable than thiols.

Succinimidyl ester-terminated alkylidysulfides are amine-reactive analogs of carboxyalkyldisulfide, for direct conjugation of i.e. protein, peptides and aminated nucleic acids.

Ferrocenylalkanethiols are utilized for the modification of gold surface to introduce electrochemically active molecules on it. The modified gold surface can be utilized for the development of sensitive electrochemical analyses.

Hydroxyalkanethiols are utilized as "dilution reagents" or "blocking reagents" on a gold surface to control the density of reactive groups on the surface or to prevent non-specific binding of analytes on the surface.

NTA-attached SAMs allow to prepare affinity support for poly-Histidine-tagged proteins.

A423	11-Amino-1-undecanethiol, hydrochloride	C406	5-Carboxypentyl disulfide
A424	8-Amino-1-octanethiol, hydrochloride	D524	4,4'-Dithiodibutyric acid
A425	6-Amino-1-hexanethiol, hydrochloride	D537	Dithiobis(succinimidyl undecanate)
F287	N-Fmoc-Aminoundecanethiol	D538	Dithiobis(succinimidyl octanate)
F288	N-Fmoc-Aminooctanethiol	D539	Dithiobis(succinimidyl hexanate)
F289	N-Fmoc-Aminohexanethiol	F246	11-Ferrocenyl-1-undecanethiol
C385	10-Carboxy-1-decanethiol	F247	8-Ferrocenyl-1-octanethiol
C386	7-Carboxy-1-heptanethiol	F269	6-Ferrocenyl-1-hexanethiol
C387	5-Carboxy-1-pentanethiol	H337	11-Hydroxy-1-undecanethiol
C404	10-Carboxydecyl disulfide	H338	8-Hydroxy-1-octanethiol
C405	7-Carboxyheptyl disulfide	H339	6-Hydroxy-1-hexanethiol

Related products/documents

[Products HighLights Overview](#), including:

[Crosslinking tools](#) – PEO/PEG biotinylation agents and AmineControlled conjugation kit

[FluoProbes labeling agents](#)

[Dialysis and Desalting tools](#) – CelluSep tubings, SpectraPor tubings, GebaFlex, FloatALyser, SlideALyser,...

Information inquire

Reply by Fax : +33 (0) 4 70 03 82 60 or email at interbiotech@interchim.com

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