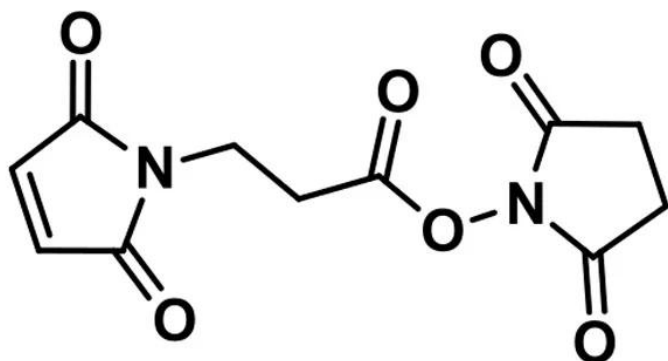




MPS (NHS-3-MALEIMIDOPROPIONATE)

SKU: QBD-10217



DESCRIPTION

MPS (NHS-3-maleimidopropionate), product number QBD-10217, is the N-hydroxysuccinimidyl (NHS) ester of 3-(maleimido)propanoic acid and is used to crosslink sulfhydryls with amines. This product does not contain a dPEG® spacer between the reactive groups. The distance is six atoms (6.0 Å) from the reactive site of the maleimide to the carbonyl carbon of the propanoic acid.

The maleimido group reacts with sulfhydryl groups to form thiol ether bonds. In the range of pH 6.5 – 7.5, the thiol-maleimide reaction is chemoselective. Above pH 7.5, the maleimide group can also react with free amine groups. Consequently, high pH buffers should be avoided when using this product.

NHS esters are widely popular for reactions of carboxylic acids with primary or secondary amines to form stable amide bonds. Although the NHS ester hydrolyzes rather easily in water or aqueous buffer, this product can be dissolved in a water-miscible solvent such as N,N'-dimethylacetamide (DMAC) that has been dried over 3 Å molecular sieves. The solution of MPS is then added to the water or aqueous buffer to start the reaction.

For research use only. Not intended for therapeutic or diagnostic use in animals or humans.



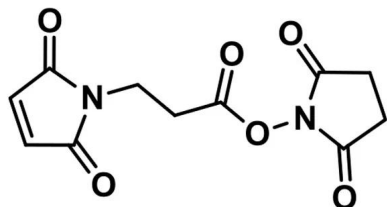
SPECIFICATIONS

CAS Number	55750-62-4
Molecular Weight	266.21; single compound
Chemical Formula	C ₁₁ H ₁₀ N ₂ O ₆
Purity	> 98%
Unit Size	250 mg, 1000 mg
Solubility	DMAC or DMSO.
Spacers	Spacer is 6 atoms and 6.0 Å
Storage Instructions	-20°C; Always let come to room temperature before opening; be careful to limit exposure to moisture and restore under an inert atmosphere; stock solutions can be prepared with dry solvent and kept for several days (freeze when not in use). dPEG® pegylation compounds are generally hygroscopic and should be treated as such. This will be less noticeable with liquids, but the solids will become tacky and difficult to manipulate, if care is not taken to minimize air exposure.
Shipping Instructions	Ambient

DOCUMENTS

- [Safety Data Sheet](#)
- [Datasheet](#)

GALLERY IMAGES



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