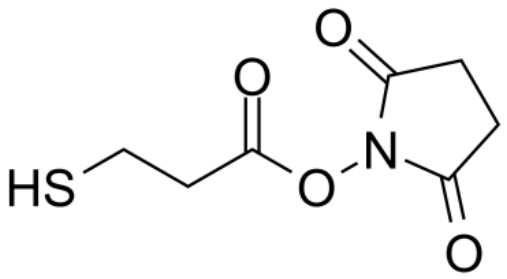
Product Data Sheet

Product Name: 3-Mercaptopropionic acid NHS ester
Cat. No.: GC60503

Chemical Properties

Cas. No.	117235-10-6		
SMILES	O=C(ON1C(CCC1=O)=O)CCS		
Formula	$C_7H_9NO_4S$	M.Wt	203.22
Solubility		Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

3-Mercaptopropionic acid NHS ester is a linker of PROTACs and belongs to the alkyl/ether category [1]. PROTACs selectively degrade target proteins through the intracellular ubiquitin-proteasome system. The terminal N-hydroxysuccinimide (NHS) ester of 3-Mercaptopropionic acid NHS ester can react with amines, while the terminal thiol can react with thiol, alkene, and alkyn [2]. 3-

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Mercaptopropionic acid NHS ester can be used for the synthesis of PROTAC molecules [3].

References:

[1] An S, Fu L. Small-molecule PROTACs: An emerging and promising approach for the development of targeted therapy drugs[J]. EBioMedicine, 2018, 36: 553-562.
[2] Malone M R, Masson J F, Beaudoin S, et al. Novel surface coatings for antibody attachment to surface plasmon resonance sensors[C]. Smart Medical and Biomedical Sensor Technology III. SPIE, 2005, 6007: 36-45.
[3] Nhu C T, Dang P N, Thuy L H T, et al. An evaluation of a gold surface functionalization procedure for antibody binding and protein detection using 11-mercaptoundecanoic acid (11-MUA)[J]. Biomedical Engineering: Applications, Basis and Communications, 2024, 36(02): 2450002.

Caution: Product has not been fully validated for medical applications. For research use only.
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