

Product Information

Lipoamide/Alcohol PEG reagent, Lipoamido-PEG2-alcohol, Purity ≥95%

Cat. No.: X26-09-ZQ395

Size: 100 mg; 250 mg; 1 g

CAS Number: 1674386-82-3

PubChem CID: 91757804

Synonym: Lipoamido-PEG2-hydroxyl; Lipoamido-polyethylene glycol2-alcohol; Lipoamide-PEG2-alcohol; Lipoamido-diethylene glycol-alcohol

This product is for research use only and is not intended for diagnostic use.

Product Information	
Description	This compact surface reagent connects a lipoamide domain to a primary alcohol terminal <i>via</i> a diethylene glycol (PEG2) spacer. The lipoamide group incorporates a dithiolane ring that coordinates strongly to gold surfaces. The alcohol group serves as a nucleophilic site for chemical functionalization. The short PEG2 bridge provides tight spatial separation.
Molecular Weight	337.5
Molecular Formula	C ₁₄ H ₂₇ NO ₄ S ₂
Functional Group 1	Lipoamide
Functional Group 2	Alcohol
Reactive Group 1	Carboxylic acid
Reactive Group 2	Acid chloride
IUPAC Name	5-(dithiolan-3-yl)-N-[2-[2-(2-hydroxyethoxy)ethoxy]ethyl]pentanamide
InChI	InChI=1S/C14H27NO4S2/c16-7-9-19-11-10-18-8-6-15-14(17)4-2-1-3-13-5-12-20-21-13/h13,16H,1-12H2,(H,15,17)
InChI Key	VTTNIUWBGVLVEK-UHFFFAOYSA-N
Canonical SMILES	C1CSSC1CCCCC(=O)NCCOCCOCCO
Purity	≥95%
Applications	This product can be used for modifying gold nanoparticle surfaces, functionalizing compact carbohydrate derivatives, and preparing sulfur-anchored linkers.
Storage	Store at -20°C.