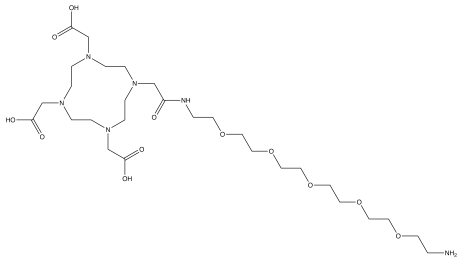
SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA
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Product Information

Amine/DOTA PEG reagent, DOTA-PEG5-amine HCl salt, Purity 98%



Cat. No.: X24-03-YW0612

Size: 1 mg; 5 mg; 10 mg

PubChem CID: 134811429

Synonym: DOTA-PEG5-amine; DOTA-PEG5-NH_2; DOTA-PEG5-amine HCl; DOTA-PEG5-C2-amine

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

Product Information

Description	DOTA-PEG5-amine HCl salt contains a DOTA chelator, a hydrophilic PEG5 spacer, and a reactive amine, providing metal ion binding and enhanced solubility for bioconjugation.
Molecular Weight	666.8
Molecular Formula	$C_{28}H_{54}N_6O_{12}$
Functional Group 1	Amine
Functional Group 2	DOTA
Reactive Group 1	Acid
Reactive Group 2	NHS
IUPAC Name	2-[4-[2-[2-[2-[2-[2-[2-(2-Aminoethoxy)ethoxy]ethoxy]ethoxy]ethoxy]ethylamino]-2-oxoethyl]-7,10-bis(carboxymethyl)-1,4,7,10-tetrazacyclododec-1-yl]acetic acid
InChI	InChI=1S/C28H54N6O12/c29-1-11-42-13-15-44-17-19-46-20-18-45-16-14-43-12-2-30-25(35)21-31-3-5-32(22-26(36)37)7-9-34(24-28(40)41)10-8-33(6-4-31)23-27(38)39/h1-24,29H2,(H,30,35)(H,36,37)(H,38,39)(H,40,41)
InChI Key	MALHBNFXIUVFNS-UHFFFAOYSA-N
Canonical SMILES	C1CN(CCN(CCN(CCN1CC(=O)NCCOCCOCCOCCOCCOCCN)CC(=O)O)CC(=O)O)CC(=O)O
Form	Solid
Purity	98%
Solubility	Water, DMSO, DMF
Identity	Confirmed by NMR.
Applications	DOTA-PEG5-amine HCl salt is used in imaging, radiopharmaceuticals, and drug delivery for efficient metal chelation and conjugation with biomolecules.
Storage	Store at -20°C.

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