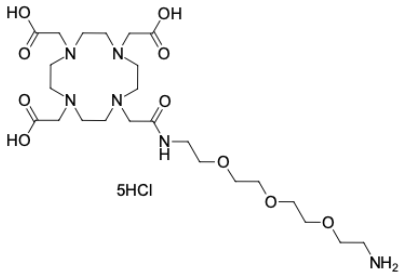
Lumiprobe Corporation
115 Airport Dr Suite 160
Westminster, Maryland 21157
USA
Phone: +1 888 973 6353
Fax: +1 888 973 6354
Email: order@lumiprobe.com

DOTA-PEG4-amine hydrochloride

http://www.lumiprobe.com/p/dota-peg4-amine

DOTA-PEG4-amine contains a terminal amino group, DOTA (1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetic acid) moiety, and a linear PEG chain as a linker. It is widely used for bioconjugation in the imaging diagnostics field due to the DOTA possessing chelating properties, and a highly reactive amine group.

The hydrophilic PEG chain increases the aqueous solubility. PEG linker allows to incorporate the chelating agent by conjugation of DOTA-PEG4-amine with carboxylic acids and activated esters using even sterically hindered moieties in a biomolecule.



Structure of DOTA-PEG4-Amine hydrochloride

General properties

Appearance:	white crystals
Molecular weight:	760.97
Molecular formula:	$C_{24}H_{51}N_6Cl_5O_{10}$
Solubility:	good in water, DMSO, methanol
Quality control:	NMR ^1H and HPLC-MS (95+%)
Storage conditions:	24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.