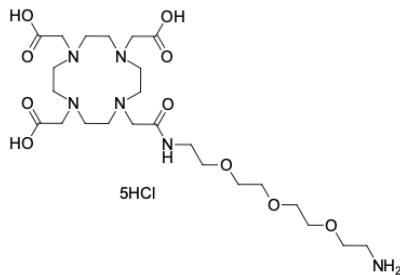

DOTA-PEG4-amine hydrochloride

<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: $C_{24}H_{51}Cl_5N_6O_{10}$

Solubility: good in water, DMSO, methanol

Quality control: NMR 1H and HPLC-MS (95+%)

Storage conditions: 24 months after receipt at $-20^{\circ}C$ in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.