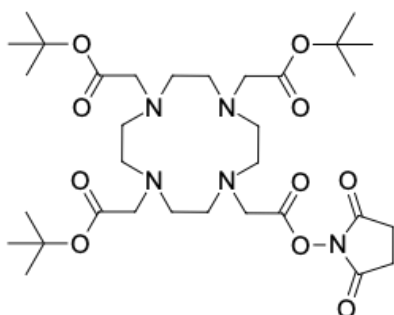


DOTA-tris-tBu mono-NHS ester

<http://www.lumiprobe.com/p/dota-tris-tbu-mono-nhs-ester>

DOTA (dodecane tetraacetic acid, also known as tetraxetan) is a complexing agent, especially for lanthanide ions. DOTA-NHS ester is a bifunctional linker containing chelating and N-hydroxysuccinimide (NHS) ester groups for conjugation with amine-containing biomolecules.

DOTA-NHS ester can be used to label radiotherapeutic agents or imaging probes and detect labeled tumors with PET, SPECT, and CT methods.



Structure of DOTA tris-tBu mono-NHS ester

General properties

Appearance: white solid

Molecular weight: 669.82

CAS number: 819869-77-7

Molecular formula: $C_{32}H_{55}N_5O_{10}$

IUPAC name: Tri-tert-butyl 2,2',2''-(10-(2-((2,5-dioxopyrrolidin-1-yl)oxy)-2-oxoethyl)-1,4,7,10-tetraazacyclododecane-1,4,7-triyl)triacetate

Solubility: DMSO, DMF, acetonitrile

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.

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