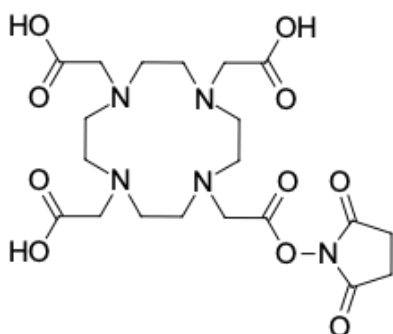


DOTA-NHS ester

<http://www.lumiprobe.com/p/dota-nhs-ester-hexafluorophosphate-tfa>

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-NHS ester

General properties

Appearance: white powder

Molecular weight: 761.49

CAS number: 1823122-52-6 (170908-81-3)

Molecular formula: $C_{20}H_{31}N_5O_{10} \cdot HPF_6 \cdot CF_3CO_2H$

IUPAC name: 1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetic acid mono-N-hydroxysuccinimide ester

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.

Legal statement: Product is offered and sold for research purposes only. Product is not tested for safety and efficacy in food, drug, medical device, cosmetic, no express or implied authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, for humans or animals or for commercial purposes.