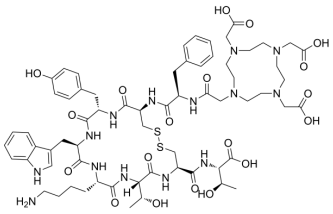
DOTATATE

Cat. No.:	HY-106244
CAS No.:	177943-88-3
Molecular Formula:	$C_{65}H_{90}N_{14}O_{19}S_2$
Molecular Weight:	1435.62
Sequence Shortening:	{DOTA}-{d-Phe}-CY-{d-Trp}-KTCT (Disulfide bridge:Cys2-Cys7)
Target:	Others
Pathway:	Others
Storage:	Sealed storage, away from moisture and light Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (69.66 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.6966 mL	3.4828 mL	6.9656 mL
	5 mM	0.1393 mL	0.6966 mL	1.3931 mL
	10 mM	0.0697 mL	0.3483 mL	0.6966 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

DOTATATE is a DOTA-conjugated peptide. DOTATATE can be labelled with radionuclides for positron emission tomography (PET) imaging and peptide receptor radionuclide research (PRRT)[1][2][3][4].

In Vivo

^{177}Lu-DOTATATE shows excellent antitumor effects in rats[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Jong M, et, al. Combination radionuclide therapy using 177Lu- and 90Y-labeled somatostatin analogs. J Nucl Med. 2005 Jan;46 Suppl 1:13S-7S.

[2]. Gains JE, et, al. 68Ga-DOTATATE and 123I-mIBG as imaging biomarkers of disease localisation in metastatic neuroblastoma: implications for molecular radiotherapy. Nucl Med Commun. 2020 Aug 10.

[3]. Breeman WAP, et, al. Optimising conditions for radiolabelling of DOTA-peptides with 90Y, 111In and 177Lu at high specific activities. Eur J Nucl Med Mol Imaging. 2003 Jun;30(6):917-20.

[4]. Reubi JC, et, al. Affinity profiles for human somatostatin receptor subtypes SST1-SST5 of somatostatin radiotracers selected for scintigraphic and radiotherapeutic use. Eur J Nucl Med. 2000 Mar;27(3):273-82.

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