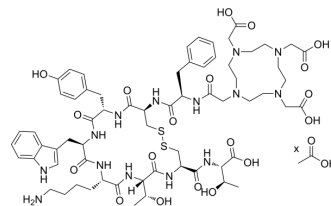


DOTATATE acetate

Cat. No.:	HY-106244A
CAS No.:	177943-89-4
Molecular Formula:	$C_{65}H_{90}N_{14}O_{19}S_2 \cdot xC_2H_4O_2$
Sequence Shortening:	{D-Phe}-CY-[D-Trp]-KTCT (Disulfide bridge:Cys2-Cys7)
Target:	Others
Pathway:	Others
Storage:	Sealed storage, away from moisture and light, under nitrogen 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, under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (Need ultrasonic) H ₂ O : 8.33 mg/mL (ultrasonic and warming and heat to 60°C)
In Vivo	1. Add each solvent one by one: PBS Solubility: 11.11 mg/mL (Infinity mM); Clear solution; Need ultrasonic and warming and heat to 60°C

BIOLOGICAL ACTIVITY

Description	DOTATATE acetate is a DOTA-conjugated peptide. DOTATATE acetate 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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