HAIYPRH hydrochloride

Cat. No.: HY-P2314

Molecular Formula: $C_{41}H_{61}ClN_{14}O_9$

Molecular Weight: 929.46

Sequence Shortening: HAIYPRH

Target: Others

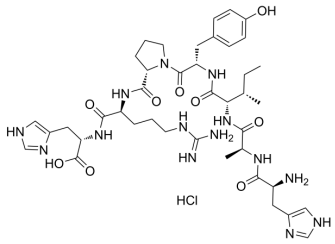
Pathway: Others

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

H_2O : ≥ 100 mg/mL (107.59 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Concentration / Solvent / Mass	1 mg	5 mg	10 mg
	1 mM	1.0759 mL	5.3795 mL	10.7589 mL
	5 mM	0.2152 mL	1.0759 mL	2.1518 mL
	10 mM	0.1076 mL	0.5379 mL	1.0759 mL

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

BIOLOGICAL ACTIVITY

Description

HAIYPRH hydrochloride, a targeting ligand, can specially bind to transferrin receptor (TfR). HAIYPRH hydrochloride can mediate the transport of nanocarriers across the blood-brain barrier[1].

In Vitro

HAIYPRH hydrochloride (T7) is conjugated to liposomes for ischemic stroke targeting treatment of a novel neuroprotectant (HY-100456: ZL006)[2].

HAIYPRH hydrochloride is a heptapeptide that can be used to target gliomas[3].

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

In Vivo

HAIYPRH hydrochloride, a transferrin receptor-specific peptide, is chosen as the ligand to target the co-delivery system to the tumor cells expressing transferrin receptors. HAIYPRH-modified co-delivery system shows higher efficiency in cellular uptake and gene expression than unmodified co-delivery system in U87 MG cells, and accumulated in tumor more efficiently in vivo[1].

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

REFERENCES

[1]. Liu S, et al. Gene and doxorubicin co-delivery system for targeting therapy of glioma. Biomaterials. 2012;33(19):4907-4916.

[2]. Wang Z, et al. Enhanced anti-ischemic stroke of ZL006 by T7-conjugated PEGylated liposomes drug delivery system. Sci Rep. 2015;5:12651. Published 2015 Jul 29.

[3]. Ziyang Zhu, et al. Goat milk-derived exosomes Endowed with Radioactive and Targeting Properties: potential to provide PET/CT monitoring for exosomes-based drug delivery system in gliomas therapy. J Nucl Med May 1, 2020 vol. 61.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA