HS024 TFA

Cat. No.: HY-P1215A

Molecular Formula: $C_{60}H_{80}F_3N_{19}O_{12}S_2$

Molecular Weight: 1380.52

Sequence Shortening: Ac-C-{Nle}-RH-{D-2Nal}-RWGC-NH2 (Disulfide bridge:Cys1-Cys9)

Ac-C-{Nle}-RH-{D-2Nal}-RWGC-NH_2 (Disulfide bridge:Cys_1-Cys_9) (TFA salt)

Target: Melanocortin Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: Sealed storage, away from moisture

Powder -80°C 2 years

-20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro

H_2O : 50 mg/mL (36.22 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.7244 mL	3.6218 mL	7.2436 mL
	5 mM	0.1449 mL	0.7244 mL	1.4487 mL
	10 mM	0.0724 mL	0.3622 mL	0.7244 mL

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

BIOLOGICAL ACTIVITY

Description HS024 is a selective MC4 receptor antagonist, with K_is of 0.29, 3.29, 5.45, 18.6 nM for MC4, MC5, MC3, and MC1, respectively. HS024 increase food intake[1].

IC_{50} & Target MC4R

REFERENCES

[1]. Kask A, et al. Discovery of a novel superpotent and selective melanocortin-4 receptor antagonist (HS024): evaluation in vitro and in vivo. Endocrinology. 1998;139(12):5006-5014.

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

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