

HS014 TFA

Cat. No.:	HY-P1216A
Molecular Formula:	C ₇₃ H ₉₅ F ₃ N ₂₀ O ₁₉ S ₂
Molecular Weight:	1677.78
Sequence:	Ac-Cys-Glu-His-[D-2NaI]-Arg-Trp-Gly-Cys-Pro-Pro-Lys-Asp-NH ₂ (Disulfide bridge:Cys1-Cys8)
Sequence Shortening:	Ac-CEH-[D-2NaI]-RWGCPPKD-NH ₂ (Disulfide bridge:Cys1-Cys8)
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)

BIOLOGICAL ACTIVITY

Description	HS014 TFA is a potent and selective melanocortin-4 (MC4) receptor antagonist, with K _i s of 3.16, 108, 54.4 and 694 nM for human MC4, MC1, MC3 and MC5 receptors respectively. HS014 TFA increases food intake in free-feeding rats ^{[1][2]} .
IC ₅₀ & Target	MC4R
In Vivo	Pretreatment with HS014 TFA blocks the effect of IL-1beta on food intake and respiratory exchange ratio (RER) at later time points (beyond 8 h post injection), as well as the hypoactivity and increases metabolic rate ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Schiöth HB, et al. Discovery of novel melanocortin4 receptor selective MSH analogues. Br J Pharmacol. 1998;124(1):75-82.

[2]. Kask A, et al. Selective antagonist for the melanocortin 4 receptor (HS014) increases food intake in free-feeding rats. Biochem Biophys Res Commun. 1998;245(1):90-93.

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

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