

CYN 154806

Cat. No.:	HY-P1202
CAS No.:	183658-72-2
Molecular Formula:	C ₅₆ H ₆₈ N ₁₂ O ₁₄ S ₂
Molecular Weight:	1197.34
Sequence:	Ac-Phe(4-NO ₂)-Cys-Tyr-Trp-Lys-Thr-Cys-Tyr-NH ₂ (Disulfide bridge: Cys2-Cys7)
Sequence Shortening:	Ac-F(4-NO ₂)CYWKTCY-NH ₂ (Disulfide bridge: Cys2-Cys7)
Target:	Somatostatin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	CYN 154806, a cyclic octapeptide, is a potent and selective somatostatin sst2 receptor antagonist, with pIC ₅₀ values of 8.58, 5.41, 6.07, 5.76 and 6.48 for human recombinant sst2, sst1, sst3, sst4 and sst5 receptors respectively ^{[1][2]} .
IC₅₀ & Target	Somatostatin Receptor ^[1] .
In Vitro	CYN 154806 inhibits SRIF-induced increases in extracellular acidification (EAR) in CHO-K1 cells expressing human sst2 receptors (pKB 7.92). CYN 154806 also blocks SRIF-induced increases [35S]-GTPγS binding in CHO-K1 cell membranes expressing human sst2 receptors as well as rat sst2(a) and rat sst2(b) receptors (pKB 7.81, 7.68 and 7.96, respectively) ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	CYN 154806 (0.1 mg/kg; i.p.; 20 min before the administration of carbachol (CCh) (30 μg/kg) in M4 KO mice) dose-dependently and significantly reverses the decreases acid response to CCh in M4 but not M3 KO mice ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Bass RT, et al. Identification and characterization of novel somatostatin antagonists. *Mol Pharmacol*. 1996 Oct;50(4):709-15.
- [2]. Feniuk W, et al. Selective somatostatin sst(2) receptor blockade with the novel cyclic octapeptide, CYN-154806. *Neuropharmacology*. 2000 Jun 8;39(8):1443-50.
- [3]. Takeuchi K, et al. Activation of Muscarinic Acetylcholine Receptor Subtype 4 Is Essential for Cholinergic Stimulation of Gastric Acid Secretion: Relation to D Cell/Somatostatin. *Front Pharmacol*. 2016 Aug 30;7:278.

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