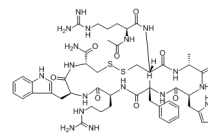


Product Name : Setmelanotide
Synonyms : RM-493; BIM-22493; IRC-022493
Cat No. : M16601
CAS Number : 920014-72-8
Molecular Formula : C₄₉H₆₈N₁₈O₉S₂
Formula Weight : 1117.31



Chemical Name : L-Cysteinamide, N2-acetyl-L-arginyl-L-cysteiny-L-alanyl-L-histidyl-D-phenylalanyl-L-arginyl-L-tryptophyl-, cyclic (2→8)-disulfide

Description : Setmelanotide (RM-493, BIM-22493, IRC-022493) is a peptide, non-selective melanocortin receptor agonist with binding K_i of 3.9/10/2.1 for hMC1R/hMC3R/hMC4R, respectively; exhibits weak activity at MC5R (EC₅₀>1 μM) and inactive at the mouse MC2R (EC₅₀>10 μM); acutely improves glucose homeostasis, causes weight loss and improves hyperinsulinemia and fatty liver in diet induced obese mice. Obesity Phase 3 Clinical

Pathway : GPCR/G Protein

Target : Melanocortin Receptor

Receptor : Melanocortin Receptor

Solubility : DMSO

SMILES : CC1C(=O)NC(C(=O)NC(C(=O)NC(C(=O)NC(C(=O)NC(CSSCC(C(=O)N1)NC(=O)C(CCCN=C(N)N)NC(=O)C(C(=O)N)CC2=CNC3=CC=CC=C32)CCCN=C(N)N)CC4=CC=CC=C4)CC5=CN=CN5

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Kumar KG, et al. *Peptides*. 2009 Oct;30(10):1892-900. 2. Chen KY, et al. *J Clin Endocrinol Metab*. 2015 Apr;100(4):1639-45. 3. Bischof JM, et al. *Br J Pharmacol*. 2016 Sep;173(17):2614-21.