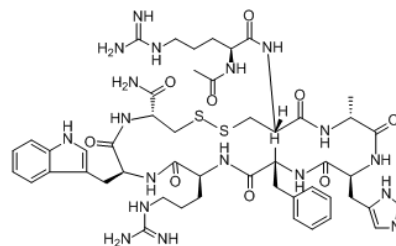


Product Name : Setmelanotide
Cat. No. : PC-45743
CAS No. : 920014-72-8
Molecular Formula : C₄₉H₆₈N₁₈O₉S₂
Molecular Weight : 1117.309
Target : Melanocortin Receptor
Solubility : 50 mM in H₂O



Biological Activity

Setmelanotide (RM-493, BIM-22493, IRC-022493) is a peptide, non-selective melanocortin-4 receptor (**MC4R**) agonist with binding K_i of 3.9/10/2.1 for hMC1R/hMC3R/hMC4R, respectively.

Setmelanotide exhibits weak activity at MC5R (EC₅₀>1 μM) and inactive at the mouse MC2R (EC₅₀>10 μM).

Setmelanotide acutely improves glucose homeostasis, causes weight loss and improves hyperinsulinemia and fatty liver in diet induced obese mice.

References

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Chen KY, et al. *J Clin Endocrinol Metab*. 2015 Apr;100(4):1639-45.

Bischof JM, et al. *Br J Pharmacol*. 2016 Sep;173(17):2614-21.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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