

Oxyntomodulin

Cat. No.:	HY-P1144	
CAS No.:	62340-29-8	
Molecular Formula:	C ₁₉₂ H ₂₉₅ N ₅₉ O ₆₀ S	
Molecular Weight:	4421.86	HSQGTFTSDYSKYLDSRRAQDFVQWLMNTKRKNNNIA
Sequence:	His-Ser-Gln-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Lys-Tyr-Leu-Asp-Ser-Arg-Arg-Ala-Gln-Asp-Phe-Val-Gln-Trp-Leu-Met-Asn-Thr-Lys-Arg-Asn-Lys-Asn-Asn-Ile-Ala	
Sequence Shortening:	HSQGTFTSDYSKYLDSRRAQDFVQWLMNTKRKNNNIA	
Target:	GCGR	
Pathway:	GPCR/G Protein	
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	DMSO : 100 mg/mL (22.61 mM; Need ultrasonic)					
		Solvent	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	Concentration				
		1 mM		0.2261 mL	1.1307 mL	2.2615 mL
		5 mM		0.0452 mL	0.2261 mL	0.4523 mL
10 mM			0.0226 mL	0.1131 mL	0.2261 mL	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (0.57 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (0.57 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (0.57 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	Oxyntomodulin, a 37-amino acid peptide hormone, is a glucagon-like peptide 1 (GLP-1) receptor agonist ^[1] .
In Vitro	Oxyntomodulin is a peptide hormone released from the gut in post-prandial state that activates both the glucagon-like peptide-1 receptor (GLP1R) and the glucagon receptor (GCGR) resulting in superior body weight lowering to selective GLP1R

agonists. Oxyntomodulin is mainly produced in gut endocrine L-cells by processing of the preproglucagon precursor by prohormone convertase 1/3. Oxyntomodulin is a full agonist in cell lines over expressing the human GLP1R and GCGR-mediated cAMP accumulation although with reduced affinity compared to GLP-1 and glucagon^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Alessandro Pocai. Action and therapeutic potential of oxyntomodulin. Mol Metab. 2013 Dec 14;3(3):241-51.

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

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