

[Ala11,D-Leu15]-Orexin B(human)

Cat. No.:	HY-P1340
CAS No.:	532932-99-3
Molecular Formula:	C ₁₂₀ H ₂₀₆ N ₄₄ O ₃₅ S
Molecular Weight:	2857.26
Sequence:	Arg-Ser-Gly-Pro-Pro-Gly-Leu-Gln-Gly-Arg-Ala-Gln-Arg-Leu-Leu-Gln-Ala-Ser-Gly-Asn-His-Ala-Ala-Gly-Ile-Leu-Thr-Met-NH ₂
Sequence Shortening:	RSGPPGLQGRAQRLQASGNHAAGILTM-NH ₂
Target:	Orexin Receptor (OX Receptor)
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Sealed storage, away from moisture and light, under nitrogen Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

BIOLOGICAL ACTIVITY

Description	[Ala11,D-Leu15]-Orexin B(human) is a potent and selective orexin-2 receptor (OX ₂) agonist. [Ala11,D-Leu15]-Orexin B(human) shows a 400-fold selectivity for the OX ₂ (EC ₅₀ =0.13 nM) over OX ₁ (52 nM) ^[1] .	
IC ₅₀ & Target	OX ₂ 0.13 nM (EC ₅₀)	OX ₁ 52 nM (EC ₅₀)

REFERENCES

[1]. Asahi S, et al. Development of an orexin-2 receptor selective agonist, [Ala(11), D-Leu(15)]orexin-B. Bioorg Med Chem Lett. 2003;13(1):111-113.

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

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