



DATASHEET

Orexin B (mouse)

Product overview

Name	Orexin B (mouse)
Cat No	HB5324
Biological description	Excitatory neuropeptide at orexin receptors (K_i values are 420 and 36 nM for OX_1 and OX_2 receptors respectively). Orexin B is involved in a many physiological functions (such as feeding regulation, sleep-wake cycle, energy metabolism etc.).
Alternative names	Hypocretin-2
Biological action	Peptide
Purity	>95%
Description	Mouse excitatory neuropeptide at orexin OX_1/OX_2 receptors

Solubility & Handling

Storage instructions	-20 °C
Solubility overview	Soluble in water (1 mg/ml)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	RPGLPGLQRLQRLQANGNHAAGILTM (modifications: Met-28 = C-terminal amide)
Molecular Weight	2936.43
Chemical structure	
Molecular Formula	$C_{126}H_{215}N_{45}O_{34}S$
Sequence (one letter)	RPGLPGLQRLQRLQANGNHAAGILTM
Modifications	Met-28 = C-terminal amide
CAS Number	202801-92-1
PubChem identifier	90479795
SMILES	<chem>CC[C@@H](C)[C@@H](C)(=O)N[C@@H](CC(C)C)C(=O)N[C@@H]([C@@H](C)O)C(=O)N[C@@H](CCSC)C(=O)N[C@@H](C)C(=O)N[C@@H](C)C(=O)N[C@@H](C)C(=O)N[C@@H](CC1=CNC=N1)NC(=O)[C@@H](CC(=O)N)NC(=O)CNC(=O)[C@@H](CC(=O)N)NC(=O)[C@@H](C)NC(=O)[C@@H](CCC(=O)N)NC(=O)[C@@H](CC(C)C)NC(=O)[C@@H](CC(C)C)NC(=O)[C@@H](CCCNC(=N)N)NC(=O)[C@@H](CCC(=O)N)NC(=O)[C@@H](CC(C)C)NC(=O)[C@@H](CCCNC(=N)N)NC(=O)CNC(=O)[C@@H](CCC(=O)N)NC(=O)[C@@H](CC(C)C)NC(=O)CNC(=O)[C@@H]2CCCNC2C(=O)[C@@H]3CCCN3C(=O)CNC(=O)[C@@H]4CCCN4C(=O)[C@@H](CCCNC(=N)N)N</chem>
InChiKey	RLVZFBVFVDDPQ-GWQFQBPSA-N
MDL number	MFCD01635376

References

The sleep-modulating peptide orexin-B protects midbrain dopamine neurons from degeneration, alone or in cooperation with nicotine.

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Orexin/hypocretin: a neuropeptide at the interface of sleep, energy homeostasis, and reward system.

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