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DATASHEET

Oxytocin

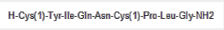
Product overview

Name	Oxytocin
Cat No	HB2929
Biological description	Oxytocin is a reproductive hormone and neuropeptide which is involved in reproduction and many other physiological and pathophysiological processes.
Biological action	Peptide
Purity	>95%
Description	Reproductive hormone. Neuropeptide.

Solubility & Handling

Storage instructions	-20 °C (desiccate)
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	CYIQNCPLG (Gly-9 = C-terminal amide, disulfide bridge between 1 - 6)
Molecular Weight	1007.19
Chemical structure	
Molecular Formula	C ₄₃ H ₆₆ N ₁₂ O ₁₂ S ₂
Sequence (one letter)	CYIQNCPLG
Sequence (three letter)	Cys-Tyr-Ile-Gln-Asn-Cys-Pro-Leu-Gly
Modifications	Gly-9 = C-terminal amide, disulfide bridge between 1 - 6
CAS Number	50-56-6
PubChem identifier	439302
SMILES	<chem>CC[C@@H](C)[C@H](C)C(=O)N[C@@H](C)C(=O)N[C@@H](C)C(=O)N[C@@H](C)C(=O)N[C@@H](C)C(=O)N[C@@H](C)C(=O)N[C@@H](C)C(=O)N[C@@H](C)C(=O)N[C@@H](C)C(=O)N[C@@H](C)C(=O)N[C@@H](C)C(=O)N[C@@H](C)C(=O)N[C@@H](C)C(=O)N[C@@H](C)C(=O)N</chem>
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MDL number	MFC00076731
Protein length	9

References

Oxytocin role in enhancing well-being: a literature review

Ishak WW *et al* (2011) J Affect Disord 130
PubMedID [20584551](#)

The oxytocin receptor system: structure, function, and regulation

Gimpl G *et al* (2001) Physiol Rev 81(2)
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Oxytocin: the great facilitator of life

Lee HJ *et al* (2009) *Prog Neurobiol* 88(2)

PubMedID

19482229
