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DATASHEET

Galanin (1-29) (rat, mouse)

Product overview

Name	Galanin (1-29) (rat, mouse)
Cat No	HB3205
Biological description	Non-selective galanin receptor agonist (K_i values are 087, 1.48 and 1.47 at GAL1, GAL2 and GAL3 respectively). Shows orexigenic and neuroprotective effects. Also shows anticonvulsant activity to prevent full kindled seizures in rats.
Biological action	Agonist
Purity	>95%
Description	Non-selective galanin receptor agonist

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	H-Gly-Trp-Thr-Leu-Asn-Ser-Ala-Gly-Tyr-Leu-Leu-Gly-Pro-His-Ala-Ile-Asp-Asn-His-Arg-Ser-Phe-Ser-Asp-Lys-His-Gly-Leu-Thr-NH2
Molecular Weight	3164.5
Molecular Formula	$C_{141}H_{211}N_{43}O_{41}$
Sequence (one letter)	GWTLNSAGYLLGPHAIDNHRSFSDKHGLT
Modifications	Thr-29 is C-terminus
CAS Number	114547-31-8
PubChem identifier	44134729
SMILES	CCC(C)C(C(=O)NC(CC(=O)O)C(=O)NC(CC(=O)N)C(=O)NC(CC1=CNC=N1)C(=O)NC(CCCNC(=N)N)C(=O)NC(CO)C(=O)NC(CC2=CC=CC=C2)C(=O)NC(CO)C(=O)NC(CC(=O)O)C(=O)NC(CCCCN)C(=O)NC(CC3=CNC=N3)C(=O)NCC(=O)NC(CC(C)C)C(=O)NC(C(C)O)C(=O)N)NC(=O)C(C)NC(=O)C(CC4=CNC=N4)NC(=O)C5CCCN5C(=O)CNC(=O)C(CC(C)C)NC(=O)C(CC(C)C)NC(=O)C(CC6=CC=C(C=C6)O)NC(=O)CNC(=O)C(C)NC(=O)C(CO)NC(=O)C(CC(=O)N)NC(=O)C(CC(C)C)NC(=O)C(C(C)O)NC(=O)C(CC7=CNC8=CC=CC=C87)NC(=O)CN
InChiKey	JHQDYHHNJBOXKP-UHFFFAOYSA-N
Appearance	White solid

References

Involvement of galanin and galanin receptor 1 in nociceptive modulation in the central nucleus of amygdala in normal and neuropathic rats.

Li SY et al (2017) Scientific reports 7

PubMedID 29127424

Hypothalamic degradation of galanin(1-29) and galanin(1-16): identification and characterization of the peptidolytic products.

Land T et al (1991) Brain research 558

PubMedID 1723638

Homodimerization and internalization of galanin type 1 receptor in living CHO cells.

Wirz SA et al (2005) Neuropeptides 39

PubMedID 16242774