

Product Name: GR 231118

Catalog No.: 1486

Batch No.: 4

CAS Number: 158859-98-4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁₀H₁₇₀N₃₄O₂₄
Batch Molecular Weight: 2352.77
Physical Appearance: White lyophilised solid
Net Peptide Content: 69%
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence:

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Ile-Glu-Pro-Dpr-Tyr-Arg-Leu-Arg-Tyr-NH2
Ile-Glu-Pro-Dpr-Tyr-Arg-Leu-Arg-Tyr-NH2

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2. ANALYTICAL DATA

HPLC: Shows 99% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical		Actual		Amino Acid Theoretical		Actual	
Ala				Lys			
Arg	4.00	3.83	Met				
Asx			Phe				
Cys			Pro	2.00	2.05		
Glx	2.00	1.94	Ser				
Gly			Thr				
His			Trp				
Ile	2.00	2.03	Tyr	4.00	3.96		
Leu	2.00	2.03	Val				

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

GR 231118 is a potent neuropeptide Y (NPY) Y₁ receptor antagonist (pA₂ = 10 and 10.5 at rY₁ and hY₁, receptors respectively). Also a potent and selective NPY Y₄ receptor agonist (pEC₅₀ values are 6.0, 8.6 and 6.1 for rY₂, hY₄ and rY₅ receptors respectively). Suppresses food intake in rats in vivo. Also has affinity for neuropeptide FF (NPFF) receptors in vitro (K_i = 43-73 nM).

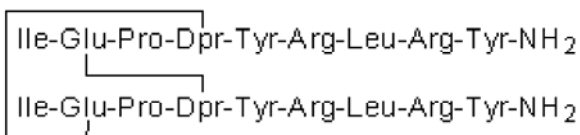
Physical and Chemical Properties:

Batch Molecular Formula: C₁₁₀H₁₇₀N₃₄O₂₄

Batch Molecular Weight: 2352.77

Physical Appearance: White lyophilised solid

Peptide Sequence:



Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in water

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Net Peptide Content: 69% (Remaining weight made up of counterions and residual water).

Counter Ion: TFA

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such as Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 µm filter to remove potential bacterial contamination whenever possible.

References:

Mollereau et al (2001) Agonist and antagonist activities on human NPFF₂ receptors of the NPY ligands GR231118 and BIBP3226. Br.J.Pharmacol. **133** 1. PMID: 11325787.

Ishihara et al (1998) A potent neuropeptide Y antagonist, 1229U91, suppressed spontaneous food intake in Zucker fatty rats. Am.J.Physiol. **274** R1500. PMID: 9612420.

Parker et al (1998) GR231118 (1229U91) and other analogues of the C-terminus of neuropeptide Y are potent neuropeptide Y Y₁ receptor antagonists and neuropeptide Y Y₄ receptor agonists. Eur.J.Pharmacol. **349** 97. PMID: 9669502.

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