TOCRIS a biotechne brand

Batch No.: 5

Certificate of Analysis

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Catalog No.: 1172

Product Name:[Ac-Tyr1,D-Phe2]GRF 1-29, amide (human)CAS Number:93965-89-0

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₅₇ H ₂₅₂ N ₄₄ O ₄₃ S
Batch Molecular Weight:	3475
Physical Appearance:	White lyophilised solid
Net Peptide Content:	90%
Solubility:	Soluble to 2 mg/ml in water
Storage:	Desiccate at -20°C
Peptide Sequence:	Ac-Tyr-D-Phe-Asp-Ala-IIe-Phe-Thr-Asn-Ser-
	Tyr-Arg-Lys-Val-Leu-Gly-Gln-Leu-Ser-Ala-
	Arg-Lys-Leu-Leu-GIn-Asp-Ile-Met-Ser-Arg-NH ₂

2. ANALYTICAL DATA

HPLC:	Shows >95% purity
Mass Spectrum:	Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala	2.00	1.85	Lys	2.00	2.04
Arg	3.00	3.03	Met	1.00	1.01
Asx	3.00	2.87	Phe	2.00	2.16
Cys			Pro		
Glx	2.00	1.83	Ser	3.00	3.00
Gly	1.00	0.98	Thr	1.00	0.97
His			Trp		
lle	2.00	2.20	Tyr	2.00	2.20
Leu	4.00	3.85	Val	1.00	1.20

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

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Product Name: [Ac-Tyr¹,D-Phe²]GRF 1-29, amide (human)

CAS Number:

93965-89-0

Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 2 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.

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Net Peptide Content: 90% (Remaining weight made up of counterions and residual water).

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 Cys, Met, Trp, Asn, Gln, and Nterminal 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:

Waelbroeck et al (1985) Interaction of growth hormone-releasing factor (GRF) and 14 GRF analogs with vasoactive intestinal peptide (VIP) receptors of rat pancreas. Discovery of (N-Ac-Tyr1,D-Phe2)-GRF(1-29)-NH2 as a VIP antagonist. Endocrinology 116 2643. PMID: 2859987

Nowak et al (1994) Evidence that endogenous vasoactive intestinal peptide (VIP) is involved in the regulation of rat pituitaryadrenocortical function: in vivo studies with a VIP antagonist. Neuropeptides 27 297. PMID: 7862261.

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Description:

VIP receptor antagonist; inhibits [1251]iodo-VIP binding and selectively inhibits VIP- and GRF-induced effects on adenylyl cyclase.

Physical and Chemical Properties:

Batch Molecular Formula: C157H252N44O43S Batch Molecular Weight: 3475 Physical Appearance: White lyophilised solid

Peptide Sequence:

Ac-Tyr-D-Phe-Asp-Ala-IIe-Phe-Thr-Asn-Ser-Tyr-Arg-Lys-Val-Leu-Gly-Gln-Leu-Ser-Ala-Arg-Lys-Leu-Leu-Gin-Asp-Ile-Met-Ser-Arg-NH₂