a biotechne brand

Print Date: Mar 22nd 2022

Certificate of Analysis

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Product Name: AY-NH₂

CAS Number: 352017-71-1

Catalog No.: 1487 Batch No.: 11

1. PHYSICAL AND CHEMICAL PROPERTIES

	Batch Molecular Formula:	C34H48N8O7
	Batch Molecular Weight:	680.8
	Physical Appearance:	White lyophilised solid
	Net Peptide Content:	70%
	Counter Ion:	TFA
	Solubility:	Soluble to 2 mg/ml in water
	Storage:	Store at -20°C
	Peptide Sequence:	Ala-Tyr-Pro-Gly-Lys-Phe-NH ₂
2.	ANALYTICAL DATA	
	HPLC:	Shows 99.3% purity
	Mass Spectrum:	Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual Amino Acid Theoretical Actual

Ala	1.00	0.95	Lys	1.00	1.01
Arg			Met		
Asx			Phe	1.00	1.06
Cys			Pro	1.00	1.01
Glx			Ser		
Gly	1.00	1.02	Thr		
His			Trp		
lle			Tyr	1.00	0.95
Leu			Val		

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

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Product Name: AY-NH₂

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Description:

AY-NH₂ is a selective PAR₄ receptor agonist peptide. Stimulates platelet aggregation in vitro (EC₅₀ = 15 μ M). Exhibits an increase in paw thickness in the paw edema inflammation model in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: C₃₄H₄₈N₈O₇ Batch Molecular Weight: 680.8 Physical Appearance: White Iyophilised solid

Peptide Sequence:

Ala-Tyr-Pro-Gly-Lys-Phe-NH₂

Storage: Store 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: 70% (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 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 μ m filter to remove potential bacterial contamination whenever possible.

References:

Hollenburg et al (2004) Proteinase-activated receptor-4: evaluation of tethered ligand-derived peptides as probes for receptor function and as inflammatory agonists in vivo. Br.J.Pharmacol. 143 443. PMID: 15451771.

Hollenberg and Saifeddine (2001) Proteinase-activated receptor 4 (PAR4): activation and inhibition of rat platelet aggregation by PAR4-derived peptides. Can.J.Physiol.Pharmacol. **79** 439. PMID: 11405248.

Faruqi et al (2000) Structure-function analysis of protease-activated receptor 4 tethered ligand peptides. J.Biol.Chem. 275 19728. PMID: 10779527.

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