

Certificate of Analysis

www.tocris.com

Product Name: AY 254

Catalog No.: 7034

Batch No.: 1

CAS Number: 2093408-03-6

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₃₀ H ₄₉ N ₉ O ₆
Batch Molecular Weight:	631.77
Physical Appearance:	White lyophilised solid
Net Peptide Content:	77%
Counter Ion:	TFA
Solubility:	Soluble to 2 mg/ml in 0.1% acetic acid
Storage:	Store at -20°C
Peptide Sequence:	5-Isox-Cha-Chg-Ala-Arg-NH ₂

2. ANALYTICAL DATA

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

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical			Amino Acid Actual
Ala	1.00	1.03	Lys
Arg	1.00	0.97	Met
Asx			Phe
Cys			Pro
Glx			Ser
Gly			Thr
His			Trp
Ile			Tyr
Leu			Val

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

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Product Information

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Product Name: AY 254

Catalog No.: 7034

Batch No.: 1

CAS Number: 2093408-03-6

Description:

Potent PAR2 biased agonist. Selectively activates ERK1/2 signaling (EC_{50} = 2 nM for ERK1/2 phosphorylation versus 80 nM for Ca^{2+} release). Reduces cytokine-induced caspase 3/8 activation, promotes scratch-wound healing, and induces IL-8 secretion, in human colorectal cancer (HT29) cells in vitro.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{30}H_{49}N_9O_6$

Batch Molecular Weight: 631.77

Physical Appearance: White lyophilised solid

Peptide Sequence:

5-Isox-Cha-Chg-Ala-Arg-NH₂

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 2 mg/ml in 0.1% acetic acid

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: 77% (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:

Jiang *et al* (2017) Biased signaling by agonists of protease activated receptor 2. ACS Chem.Biol. **12** 1217. PMID: 28169521.

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