

Certificate of Analysis

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Product Name: AY 77
CAS Number: 1835734-92-3

Catalog No.: 7033 **Batch No.:** 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₃₂N₄O₄
Batch Molecular Weight: 404.5
Physical Appearance: White lyophilised solid
Counter Ion: N/A
Solubility: Soluble to 1 mg/ml in ethanol
Storage: Store at -20°C
Peptide Sequence: 5-Isox-Cha-Chg-NH₂

2. ANALYTICAL DATA

HPLC: Shows 98% purity
Mass Spectrum: Consistent with structure

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

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Description:

AY 77 is a potent PAR2 biased agonist. AY 77 exhibits bias for Ca²⁺ over ERK1/2 signaling (EC₅₀ values are 40 nM for Ca²⁺ release versus 2 μM for ERK1/2 phosphorylation). Shows selectivity for PAR2 over PAR1. Promotes migration of human breast cancer cells in vitro.

Physical and Chemical Properties:

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Batch Molecular Weight: 404.5

Physical Appearance: White lyophilised solid

Peptide Sequence:

5-Isox-Cha-Chg-NH₂

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in ethanol

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.

Counter Ion: N/A

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.

Yau *et al* (2015) Potent small agonists of protease activated receptor 2. ACS Med.Chem.Lett. **7** 105. PMID: 26819675.

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