# TOCRIS a biotechne brand

#### Print Date: Feb 22nd 2021

# **Certificate of Analysis**

# www.tocris.com

Product Name: AY 77

CAS Number: 1835734-92-3 Catalog No.: 7033 Batch No.: 1

# 1. PHYSICAL AND CHEMICAL PROPERTIES

| Batch Molecular Formula: | $C_{21}H_{32}N_4O_4$           |
|--------------------------|--------------------------------|
| 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-NH <sub>2</sub> |
| 2. ANALYTICAL DATA       |                                |

2.

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

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



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### Product Name: AY 77

**Description:** 

CAS Number: 1835734-92-3

#### 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 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.

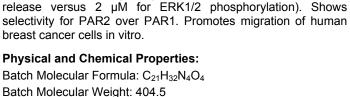
Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2  $\mu$ m filter to remove potential bacterial contamination whenever possible.

#### **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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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+

Physical Appearance: White lyophilised solid

#### **Peptide Sequence:**

5-Isox-Cha-Chg-NH<sub>2</sub>

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