

## Print Date: Oct 4th 2018

# **Certificate of Analysis**

# www.tocris.com

Product Name: ELA-14 (human) CAS Number: 1886973-05-2 Catalog No.: 6293 Bat

Batch No.: 1

# 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{75}H_{119}N_{25}O_{17}S_2$
Batch Molecular Weight:	1707.03
Physical Appearance:	White lyophilised solid
Net Peptide Content:	74%
Counter Ion:	TFA
Solubility:	Soluble to 1 mg/ml in water
Storage:	Store at -20°C
Peptide Sequence:	Glp-Arg-Arg-Cys-Met-Pro-Leu-His-Ser-Arg- Val-Pro-Phe-Pro

# 2. ANALYTICAL DATA

HP

Ма

PLC:	Shows 97% purity
iss Spectrum:	Consistent with structure

# 3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala			Lys		
Arg	3.00	2.97	Met	1.00	1.00
Asx			Phe	1.00	1.01
Cys			Pro	3.00	2.99
Glx	1.00	1.01	Ser	1.00	1.05
Gly			Thr		
His	1.00	1.02	Trp		
lle			Tyr		
Leu	1.00	1.01	Val	1.00	0.96

. . .

. .

...

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



## www.tocris.com

## Product Name: ELA-14 (human)

CAS Number: 1886973-05-2

#### **Description:**

Potent apelin (APJ) receptor agonist ( $K_i = 0.93$  nM). Bioactive fragment of ELA-32 (Cat. No. 6291). Activates G $\alpha_{i1}$  pathway and  $\beta$ -arrestin-2 recruitment . Reduces arterial pressure in rat hearts. Active in vivo. ELA-14 negative control (Cat.No. 6294) also available.

#### **Physical and Chemical Properties:**

Batch Molecular Formula:  $C_{75}H_{119}N_{25}O_{17}S_2$ Batch Molecular Weight: 1707.03 Physical Appearance: White Iyophilised solid

#### **Peptide Sequence:**

Glp-Arg-Arg-Cys-Met-Pro-Leu-His-Ser-Arg-Val-Pro-Phe-Pro

## Catalog No.: 6293

Batch No.: 1

#### Storage: Store at -20°C

## Solubility & Usage Info:

Soluble to 1 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.

**Net Peptide Content:** 74% (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  $\mu$ m filter to remove potential bacterial contamination whenever possible.

#### Licensing Information:

Sold under agreement from the Agency for Science, Technology and Research (A\*STAR), ETPL, and affiliates including the Institute of Medical Biology.

#### **References:**

**Murza** *et al* (2016) Discovery and structure-activity relationship of a bioactive fragment of ELABELA that modulates vascular and cardiac functions. J.Med.Chem. **59** 2962. PMID: 26986036.

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956