

Certificate of Analysis

www.tocris.com

Product Name: RAGE antagonist peptide

Catalog No.: 6259

Batch No.: 5

CAS Number: 1092460-91-7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₅₇H₁₀₁N₁₃O₁₇S
Batch Molecular Weight: 1272.56
Physical Appearance: White lyophilised solid
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: Ac-Glu-Leu-Lys-Val-Leu-Met-Glu-Lys-Glu-Leu-NH₂

2. ANALYTICAL DATA

HPLC: Shows 98.9% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical		Actual		Amino Acid Theoretical		Actual	
Ala				Lys	2.00	2.00	
Arg				Met	1.00	0.99	
Asx				Phe			
Cys				Pro			
Glx	3.00	2.96		Ser			
Gly				Thr			
His				Trp			
Ile				Tyr			
Leu	3.00	3.07		Val	1.00	1.00	

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

bio-techne.com
 info@bio-techne.com
 techsupport@bio-techne.com

North America
 Tel: (800) 343 7475

China
 info.cn@bio-techne.com
 Tel: +86 (21) 52380373

Europe Middle East Africa
 Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
 Tel:+1 612 379 2956

Product Name: RAGE antagonist peptide**Catalog No.:** 6259**5**

CAS Number: 1092460-91-7

Description:

RAGE antagonist peptide is a receptor for advanced glycation end products (RAGE) antagonist. Blocks S100P, S100A4 and HMGB-1 mediated RAGE activation in vitro and in vivo. Inhibits growth and metastasis of rat glioma tumors. Reduces cell growth and RAGE-mediated NF- κ B activity in human PDAC cell lines. Inhibits effects of TDI exposure in BALB/c mice.

Physical and Chemical Properties:Batch Molecular Formula: C₅₇H₁₀₁N₁₃O₁₇S

Batch Molecular Weight: 1272.56

Physical Appearance: White lyophilised solid

Peptide Sequence:Ac-Glu-Leu-Lys-Val-Leu-Met-Glu-Lys-Glu-Leu-NH₂**Storage:** Store at -20°C**Solubility & Usage Info:**

Soluble to 1 mg/ml in water

This product is supplied in lyophilized form. It may appear as a solid, gel or film and 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: 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 μ m filter to remove potential bacterial contamination whenever possible.

References:

Yao et al (2016) The receptor for advanced glycation end products is required for β -catenin stabilization in a chemical-induced asthma model. *Br.J.Pharmacol.* **173** 2600. PMID: 27332707 .

Arumugam et al (2012) S100P-derived RAGE antagonistic peptide reduces tumor growth and metastasis. *Clin.Cancer.Res.* **18** 4356. PMID: 22718861 .

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956