

## Certificate of Analysis

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**Product Name:** RAGE antagonist peptide

**Catalog No.:** 6259

**Batch No.:** 4

CAS Number: 1092460-91-7

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>57</sub>H<sub>101</sub>N<sub>13</sub>O<sub>17</sub>S  
**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-NH<sub>2</sub>

### 2. ANALYTICAL DATA

**HPLC:** Shows 97.9% purity  
**Mass Spectrum:** Consistent with structure

### 3. AMINO ACID ANALYSIS DATA

Amino Acid		Theoretical	Actual	Amino Acid		Theoretical	Actual
Ala				Lys	2.00	1.99	
Arg				Met	1.00	0.97	
Asx				Phe			
Cys				Pro			
Glx	3.00	3.05		Ser			
Gly				Thr			
His				Trp			
Ile				Tyr			
Leu	3.00	3.00		Val	1.00	0.99	

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](http://www.tocris.com/distributors)

Tel: +1 612 379 2956

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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- $\kappa$ B activity in human PDAC cell lines. Inhibits effects of TDI exposure in BALB/c mice.

**Physical and Chemical Properties:**Batch Molecular Formula: C<sub>57</sub>H<sub>101</sub>N<sub>13</sub>O<sub>17</sub>S

Batch Molecular Weight: 1272.56

Physical Appearance: White lyophilised solid

**Peptide Sequence:**Ac-Glu-Leu-Lys-Val-Leu-Met-Glu-Lys-Glu-Leu-NH<sub>2</sub>**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.

**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  $\mu$ m filter to remove potential bacterial contamination whenever possible.

**References:**

Yao *et al* (2016) The receptor for advanced glycation end products is required for  $\beta$ -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 .

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