# biotechne<sup>®</sup> TOCRIS

### **Certificate of Analysis**

#### www.tocris.com

Batch No.: 3

Catalog No.: 3995

#### Product Name: GI 254023X

CAS Number: 260264-93-5

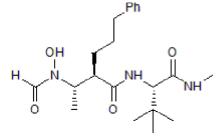
IUPAC Name:

(2R)-N-[(1S)-2,2-Dimethyl-1-[(methylamino)carbonyl]propyl]-2-[(1S)-1-(N-hydroxyformamido)ethyl]-5-

phenylpentanamide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: C<sub>21</sub>H<sub>33</sub>N<sub>3</sub>O<sub>4</sub>.½H<sub>2</sub>O 400.51 White solid DMSO to 20 mM Store at -20°C



#### 2. ANALYTICAL DATA

TLC: HPLC: <sup>1</sup>H NMR: Mass Spectrum: Microanalysis:

 $R_{f} = 0.52 \text{ (Dichloromethane:Methanol [95:5])}$ Shows 99.5% purity
Consistent with structure
Consistent with structure
Carbon Hydrogen Nitrogen
Theoretical 62.98 8.56 10.49
Found 63.19 8.54 10.6

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

# biotechne TOCRIS

### www.tocris.com

#### GI 254023X Product Name:

CAS Number: 260264-93-5

**IUPAC Name:** 

(2R)-N-[(1S)-2,2-Dimethyl-1-[(methylamino)carbonyl]propyl]-2-[(1S)-1-(N-hydroxyformamido)ethyl]-5phenylpentanamide

#### **Description:**

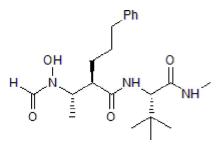
GI 254023X is a selective ADAM10 metalloprotease inhibitor; displays over 100-fold higher potency at ADAM10 compared to ADAM17. Blocks constitutive release of IL-6R, CX3CL1 and CXCL16 in cell-based cleavage experiments. Inhibits calcium ionophore-induced betacellulin shedding in IMPE cells. Prevents E-cadherin cleavage in A549 cells. Inhibits ADAM10 mediated neuronal outgrowth of dorsal root ganglion neurons in vitro.

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

Batch Molecular Formula: C21H33N3O4.1/2H2O Batch Molecular Weight: 400.51 Physical Appearance: White solid

#### Minimum Purity: ≥98%

#### **Batch Molecular Structure:**



#### Storage: Store at -20°C

#### Solubility & Usage Info:

#### DMSO to 20 mM

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.

#### 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).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

#### Licensing Information:

Sold for research purposes under agreement from GlaxoSmithKline.

#### **References:**

Inoshima et al (2011) A Staphylococcus aureus pore-forming toxin subverts the activity of ADAM10 to cause lethal infection in mice. Nat.Med. 17 1310. PMID: 21926978.

Moss et al (2007) The ADAM10 prodomain is a specific inhibitor of ADAM10 proteolytic activity and inhibits cellular shedding events. J.Biol.Chem. 282 35712. PMID: 17895248.

Ludwig et al (2005) Metalloprotease inhibitors for the disintegrin-like metalloproteinases ADAM10 and ADAM17 that differentially block constitutive and phorbol ester-inducible shedding of cell surface molecules. Comb.Chem.High Throughput Screen. 8 161. PMID: 15777180.

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

#### Catalog No.: 3995

3