

**Product Name:** GW 280264X

**Catalog No.:** 7030

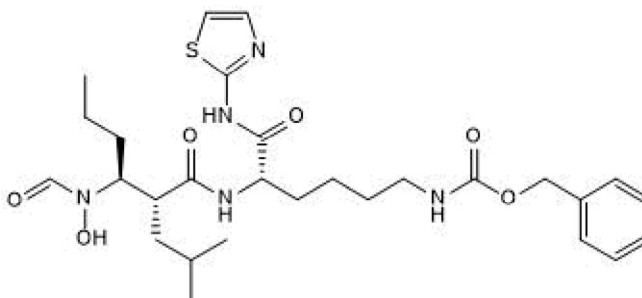
**Batch No.:** 4

CAS Number: 866924-39-2

IUPAC Name: Phenylmethyl *N*-[(5*S*)-5-[[[(2*R*,3*S*)-3-(formylhydroxyamino)-2-(2-methylpropyl)-1-oxohexyl]amino]-6-oxo-6-(2-thiazolylamino)hexyl]carbamate

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>28</sub>H<sub>41</sub>N<sub>5</sub>O<sub>6</sub>S.  
**Batch Molecular Weight:** 575.73  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	58.41	7.18	12.16
Found	58.04	7.2	12.12

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**Description:**

GW 280264X is a potent ADAM (A Disintegrin and Metalloproteinase) 17 and ADAM10 inhibitor (IC<sub>50</sub> values of 8 nM and 11.5 nM, respectively). It inhibits constitutive and PMA-inducible CX3CL1 shedding and increases adhesive properties in CX3CL1 transfected cells (IC<sub>50</sub> = 1 μM in COS-7 and ECV-304 cells). GW 280264X treatment in mice significantly improves functional recovery after spinal cord injury.

**Physical and Chemical Properties:**

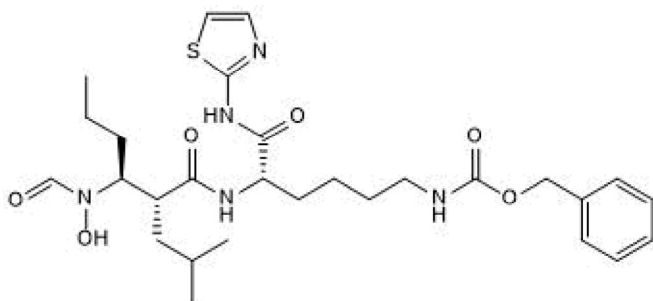
Batch Molecular Formula: C<sub>28</sub>H<sub>41</sub>N<sub>5</sub>O<sub>6</sub>S.

Batch Molecular Weight: 575.73

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**References:**

**Sommer et al (2019)** ADAM17-deficiency on microglia but not on macrophages promotes phagocytosis and functional recovery after spinal cord injury *Brain Behav. Immun.* **80** 129. PMID: 30851378.

**Hundhausen et al (2003)** The disintegrin-like metalloproteinase ADAM10 is involved in constitutive cleavage of CX3CL1 (fractalkine) and regulates CX3CL1-mediated cell-cell adhesion. *Blood* **102** 1186. PMID: 12714508.

**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

**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.

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