

Product Name: GW 280264X

Catalog No.: 7030

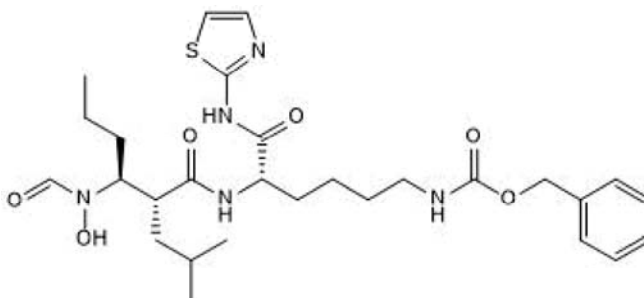
Batch No.: 2

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: C₂₈H₄₁N₅O₆S.
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 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.41	7.18	12.16
Found	58.35	7.12	12.12

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

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Description:

GW 280264X is a potent ADAM (A Disintegrin and Metalloproteinase) 17 and ADAM10 inhibitor (IC₅₀ 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 (IC₅₀ = 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:

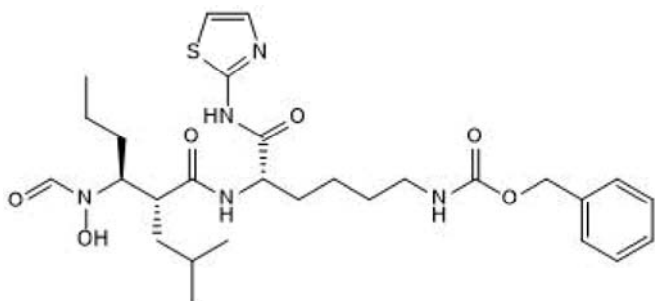
Batch Molecular Formula: C₂₈H₄₁N₅O₆S.

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. Our standard recommendations are:

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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