TOCRIS a biotechne brand

Certificate of Analysis

www.tocris.com

Product Name: BIO 5192

Catalog No.: 5051 Batch No.: 2

CAS Number: 327613-57-0

IUPAC Name:

Solubility:

Storage:

(2S)-2-[[[(2S)-1-[(3,5-Dichlorophenyl)sulfonyl]-2-pyrrolidinyl]carbonyl]amino]-4-[[(2S)-4-methyl-2-[methyl [2-[4-[[[(2-methylphenyl)amino]carbonyl]amino]phenyl]acetyl]amino]-1-oxopentyl]amino]butanoic acid

C38H46Cl2N6O8S.1/2H2O

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance:

Batch Molecular Structure:

826.79 White solid DMSO to 100 mM Store at -20°C

2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis: Shows 98.5% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 55.2 5.73 10.16 Found 54.97 5.6 10.11

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

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Description:

Highly selective and potent inhibitor of integrin $\alpha_4\beta_1$ (Very Late Antigen-4; VLA-4) (K_d < 10 pM). Selectively binds $\alpha_4\beta_1$ over a range of other integrins (IC₅₀ values are 1.8, 138, 1053, > 500 and > 10,000 nM for $\alpha_4\beta_1$, $\alpha_9\beta_1$, $\alpha_2\beta_1$, $\alpha_4\beta_7$ and $\alpha_{IIb}\beta_3$, respectively). Induces a 30-fold increase in mobilization of murine hematopoietic stem and progenitor cells; displays a 3-fold additive effect with AMD 3100 (Cat. No. 3299). Decreases oxidative damage and improves neurological function following spinal cord injury in rats. Please see product datasheet on www.tocris.com for full description.

Physical and Chemical Properties:

Batch Molecular Formula: C₃₈H₄₆Cl₂N₆O₈S.½H₂O Batch Molecular Weight: 826.79 Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

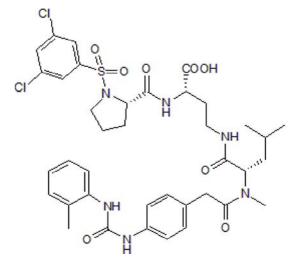
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Catalog No.: 5051

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.



References:

Ramirez et al (2009) BIO5192, a small molecule inhibitor of VLA-4, mobilizes hematopoietic stem and progenitor cells. Blood. **1340** 1340. PMID: 19571319.

Bao *et al* (2008) An integrin inhibiting molecule decreases oxidative damage and improves neurological function after spinal cord injury. Exp.Neurol **214** 160. PMID: 18926823.

Xu et al (2008) A chemical approach to stem-cell biology and regenerative medicine. Nature 453 338. PMID: 18480815.

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