

Product Name: SD 1008

Catalog No.: 3035

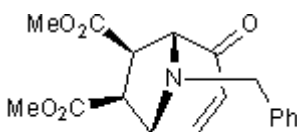
Batch No.: 1

CAS Number: 960201-81-4

IUPAC Name: (1*R*,5*R*,6*R*,7*S*)-*rel*-4-Oxo-8-(phenylmethyl)-8-azabicyclo[3.2.1]oct-2-ene-6,7-dicarboxylic acid 6,7-dimethyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₉NO₅
Batch Molecular Weight: 329.35
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
ethanol to 5 mM
Storage: Store at RT
Batch Molecular Structure:



(and enantiomer)

2. ANALYTICAL DATA

TLC: R_f = 0.16 (Ethyl acetate:Petroleum ether [1:4])
HPLC: Shows 99.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.64	5.81	4.25
Found	65.48	5.83	4.28

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

Product Name: SD 1008

Catalog No.: 3035

Batch No.: 1

CAS Number: 960201-81-4

IUPAC Name: (1*R*,5*R*,6*R*,7*S*)-*rel*-4-Oxo-8-(phenylmethyl)-8-azabicyclo[3.2.1]oct-2-ene-6,7-dicarboxylic acid 6,7-dimethyl ester

Description:

JAK2/STAT3 signaling pathway inhibitor. Inhibits activation of STAT3, JAK2 and Src. Induces apoptosis in cell lines expressing constitutively active tyrosine-phosphorylated STAT3.

Physical and Chemical Properties:

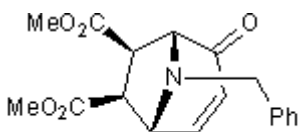
Batch Molecular Formula: C₁₈H₁₉NO₅

Batch Molecular Weight: 329.35

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



(and enantiomer)

Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 5 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.

References:

Duan *et al* (2007) 8-benzyl-4-oxo-8-azabicyclo[3.2.1]oct-2-ene-6,7-dicarboxylic acid (SD-1008), a novel Janus kinase 2 inhibitor, increases chemotherapy sensitivity in human ovarian cancer cells. *Mol.Pharmacol.* **72** 1137. PMID: 17675586.

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

Tel: +1 612 379 2956