

Product Name: NSC 668036

Catalog No.: 5813

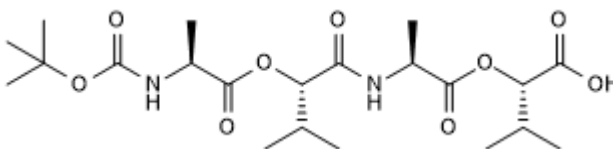
Batch No.: 1

CAS Number: 144678-63-7

IUPAC Name: *N*-[(1,1-dimethylethoxy)carbonyl]-L-alanyl-(2*S*)-2-hydroxy-3-methylbutanoyl-L-alanine-(1*S*)-1-carboxy-2-methylpropyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₃₆N₂O₉
Batch Molecular Weight: 460.52
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.7 (Dichloromethane:Methanol [9:1])
HPLC: Shows >99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.77	7.88	6.08
Found	54.65	7.82	6.14

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

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Description:

Wnt signaling inhibitor. Binds the PDZ domain of the Dishevelled (Dvl) protein. Inhibits proliferation, migration and TGF- β -induced differentiation of fibroblasts in vitro. Reduces severity of pulmonary fibrosis in a mouse model.

Physical and Chemical Properties:

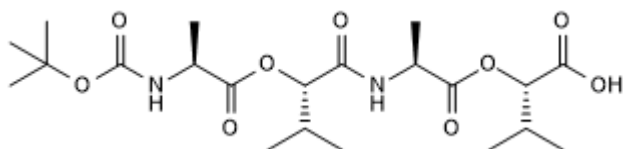
Batch Molecular Formula: C₂₁H₃₆N₂O₉

Batch Molecular Weight: 460.52

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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.

References:

Wang et al (2015) Targeted inhibition of dishevelled PDZ domain via NSC668036 depresses fibrotic process. *Exp.Cell Res.* **331** 115. PMID: 25445788.

Shan et al (2005) Identification of a specific inhibitor of the dishevelled PDZ domain. *Biochemistry* **44** 15495. PMID: 16300398.

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