

Product Name: Diprotin A

Catalog No.: 6019

Batch No.: 5

CAS Number: 90614-48-5

IUPAC Name: L-Isoleucyl-L-prolyl-L-isoleucine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₃₁N₃O₄·³/₄H₂O

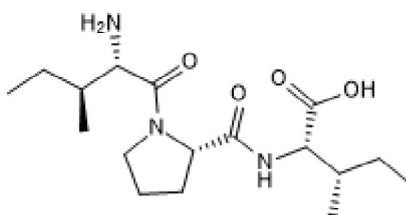
Batch Molecular Weight: 354.96

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.1% purity

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.52	9.23	11.84
Found	56.82	9.14	11.5

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

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Description:

Diprotin A is a dipeptidyl peptidase IV (DPP-IV) inhibitor. Inhibits hydrolysis of incretins, regulating blood glucose levels. Induces Src and vascular endothelium-cadherin phosphorylation, increasing vascular permeability in the retina. Also increases number of viable phenotypic long term repopulating hematopoietic stem cells when harvesting mouse bone marrow in aerobic conditions.

Physical and Chemical Properties:

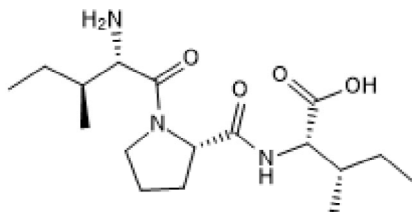
Batch Molecular Formula: C₁₇H₃₁N₃O₄·¾H₂O

Batch Molecular Weight: 354.96

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water 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.

References:

Lee et al (2016) Dipeptidyl peptidase-4 inhibitor increases vascular leakage in retina through VE-cadherin phosphorylation. *Sci.Rep.* **6** 29393. PMID: 27381080.

Lim et al (2015) Role of dipeptidyl peptidase-4 inhibitors in new-onset diabetes after transplantation. *Korean J.Intern.Med.* **30** 759. PMID: 26552451.

Juillerat-Jeanneret et al (2014) Dipeptidyl peptidase IV and its inhibitors: therapeutics for type 2 diabetes and what else? *J.Med.Chem.* **57** 2197. PMID: 24099035.

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