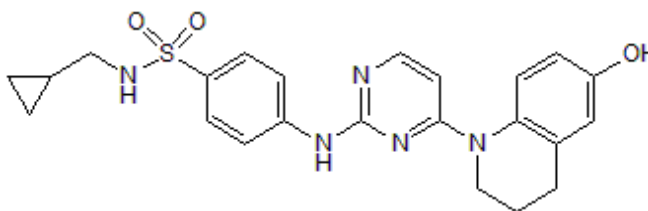


Product Name: Pyrintegrin **Catalog No.:** 4978 **Batch No.:** 2
CAS Number: 1228445-38-2
IUPAC Name: *N*-(Cyclopropylmethyl)-4-[[4-(3,4-dihydro-6-hydroxy-1(2*H*)-quinoliny)-2-pyrimidinyl]amino]benzenesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₅N₅O₃S
Batch Molecular Weight: 451.54
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.55 (Dichloromethane:Methanol [9:1])
HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.18	5.58	15.51
Found	61.4	5.61	15.4

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

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Description:

Enhances survival of human embryonic stem cells (hESCs) following enzymatic dissociation. Thought to enhance cell-ECM adhesion and activate integrin signaling. Increases adhesion of hESCs to matrigel- and laminin-coated plates, but not to gelatin-coated plates. Also podocyte-protective agent and prevents LPS-induced proteinuria in mice.

Physical and Chemical Properties:

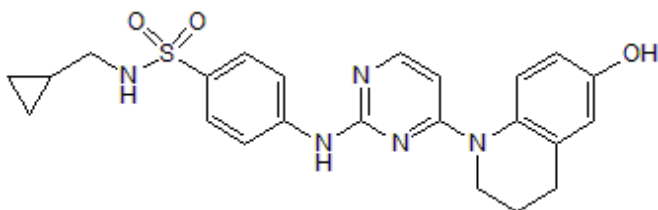
Batch Molecular Formula: C₂₃H₂₅N₅O₃S

Batch Molecular Weight: 451.54

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°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.

References:

Xu et al (2010) Revealing a core signaling regulatory mechanism for pluripotent stem cell survival and self-renewal by small molecules. *Proc.Natl.Acad.Sci.USA* **107** 8129. PMID: 20406903.

Lee et al (2015) A Podocyte-Based Automated Screening Assay Identifies Protective Small Molecules. *J.Am.Soc.Nephrol.* PMID: 25858967.

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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