

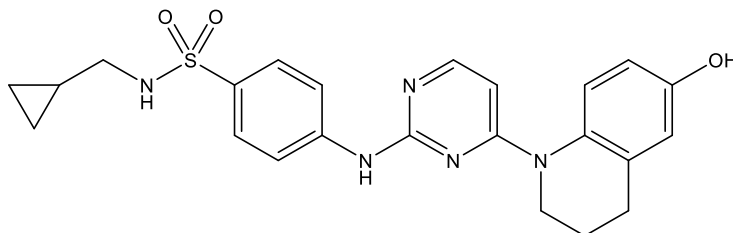
Catalog # 10-5468

Pyrintegrin

CAS# 1228445-38-2

N-(Cyclopropylmethyl)-4-[[4-(3,4-dihydro-6-hydroxy-1(2H)-quinolinyl)-2-pyrimidinyl]amino]-benzenesulfonamide

Lot # E109095



Pyrintegrin is a β 1-integrin agonist that promotes survival of human embryonic stem cells following enzymatic dissociation by enhancing cell-ECM-mediated integrin activity.¹ It induces soft tissue formation from transplanted or endogenous cells via stimulation of adipogenesis and may have potential in soft tissue therapeutic reconstruction and augmentation², It protects podocytes from LPS-induced injury *in vivo*³. A very useful tool for exploring the involvement of β 1-integrin signaling in cellular physiology.^{4,5}

- 1) 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
- 2) Shah *et al.* (2017) *Pyrintegrin Induces Soft Tissue Formation by Transplanted or Endogenous Cells*; Sci. Rep. **7** 36402
- 3) Lee *et al.* (2015) *A Podocyte-Based Automated Screening Assay Identifies Protective Small Molecules*; J. Am. Soc. Nephrol. **26** 2741
- 4) Li *et al.* (2021) *Extracellular matrix protein laminin β 1 regulates pain sensitivity and anxiety-like behaviors in mice*; J. Clin. Invest. **131** e146323
- 5) Li *et al.* (2025) *Mechanistic insights into the treatment of pulmonary fibrosis with bioactive components from traditional chinese medicine via matrix stiffness-mediated EMT*; Phytomedicine **136** e156266

PHYSICAL DATA

Molecular Weight:	451.54
Molecular Formula:	C ₂₃ H ₂₅ N ₅ O ₃ S
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (45 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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