Small Molecules

Pyrintegrin

Integrin and tyrosine kinase activator; Activates Integrin, FGFR, IGFR, and HER2

Catalog #	72842	1 mg
	72844	10 mg

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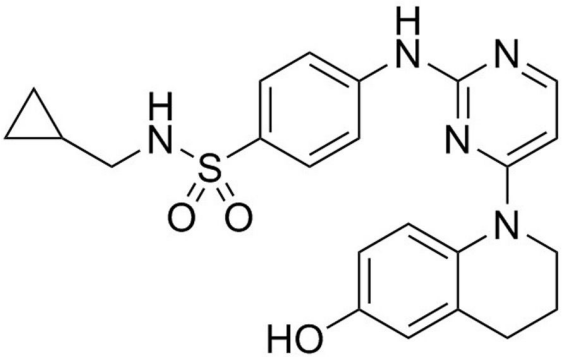
Product Description

Pyrintegrin is a 2,4-disubstituted pyrimidine that induces the activation of β1 integrin and multiple growth factor receptors, including FGFR1, IGFR1, EGFR1, and HER2 (Xu et al.).

Molecular Name:	Pyrintegrin
Alternative Names:	Not applicable
CAS Number:	1228445-38-2
Chemical Formula:	$C_{23}H_{25}N_5O_3S$
Molecular Weight:	451.5 g/mol
Purity:	≥ 95%
Chemical Name:	N-(cyclopropylmethyl)-4-[[4-(3,4-dihydro-6-hydroxy-1(2H)-quinolinyl)-2-pyrimidinyl]amino]-benzenesulfonamide
Structure:	

Properties

Physical Appearance:	A crystalline solid
Storage:	Product stable at -20°C as supplied. Protect from prolonged exposure to light. Stable as supplied for 12 months from date of receipt.
Solubility:	· Absolute ethanol ≤ 2.2 mM · DMSO ≤ 65 mM For example, to prepare a 10 mM stock solution in DMSO, resuspend 1 mg in 221 µL of fresh DMSO. Prepare stock solution fresh before use. Information regarding stability of small molecules in solution has rarely been reported, however, as a general guide we recommend storage in DMSO at -20°C. Aliquot into working volumes to avoid repeated freeze-thaw cycles. The effect of storage of stock solution on compound performance should be tested for each application. Compound has low solubility in aqueous media. For use as a cell culture supplement, stock solution should be diluted into culture medium immediately before use. Avoid final DMSO concentration above 0.1% due to potential cell toxicity.

Published Applications

MAINTENANCE AND SELF-RENEWAL
· Enhances integrin-dependent attachment and survival of human embryonic stem cells following trypsin-mediated single-cell dissociation (Xu et al.).

References

Xu Y 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(18): 8129–34.

Related Small Molecules

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