

## Small Molecules

### Pyrintegrin

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

Catalog # 72842  
72844

1 mg  
10 mg



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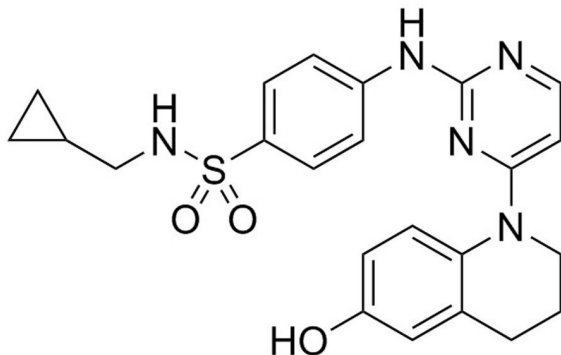
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## Product Description

Pyrintegrin is a 2,4-disubstituted pyrimidine that induces the activation of  $\beta 1$  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 <sub>23</sub> H <sub>25</sub> N <sub>5</sub> O <sub>3</sub> S
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. For product expiry date, please contact techsupport@stemcell.com.
Solubility:	<ul style="list-style-type: none"><li>· Absolute ethanol ≤ 2.2 mM</li><li>· DMSO ≤ 65 mM</li></ul> For example, to prepare a 10 mM stock solution in DMSO, resuspend 1 mg in 221 $\mu$ L 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 (ES) 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 U S A 107(18): 8129–34.

## Related Small Molecules

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