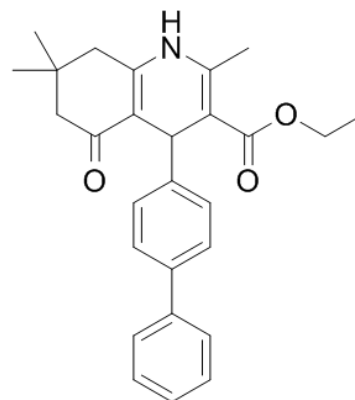


Product Name : ITD-1
Cat. No. : PC-43159
CAS No. : 1099644-42-4
Molecular Formula : C₂₇H₂₉NO₃
Molecular Weight : 415.524
Target : TGF beta Receptor (TGFB β R)
Solubility : DMSO: < 9 mg/mL



Biological Activity

ITD-1 is a potent, selective **TGF- β** inhibitor that induces type II TGF β receptor (TGFB β R2) degradation with IC₅₀ of 0.85 μ M, enhances proteasomal degradation of TGFB β R2.

ITD-1 effectively clears the receptor from the cell surface and selectively inhibits intracellular signaling.

ITD-1 selectively enhances the differentiation of uncommitted mesoderm to cardiomyocytes, but not to vascular smooth muscle and endothelial cells.

References

Willems E, et al. *Cell Stem Cell*. 2012 Aug 3;11(2):242-52.

Sun Z, et al. *Dev Biol*. 2017 Jan 15;421(2):149-160.

Mingyuan X, et al. *Oncotarget*. 2017 Dec 14;9(3):3188-3197.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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