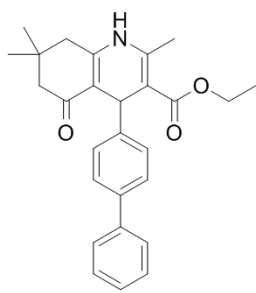


Product Name	: ITD-1	
Synonyms	: ITD-1	
Cat No.	: M10381	
CAS Number	: 1099644-42-4	
Molecular Formula	: C ₂₇ H ₂₉ NO ₃	
Formula Weight	: 415.52	
Chemical Name	: 3-Quinolinecarboxylic acid, 4-[1,1'-biphenyl]-4-yl-1,4,5,6,7,8-hexahydro-2,7,7-trimethyl-5-oxo-, ethyl ester	
Description	: ITD-1 is a potent, selective TGF-β inhibitor that induces type II TGFβ receptor (TGFR2) degradation with IC ₅₀ of 0.85 μM, enhances proteasomal degradation of TGFR2; effectively clears the receptor from the cell surface and selectively inhibits intracellular signaling; selectively enhances the differentiation of uncommitted mesoderm to cardiomyocytes, but not to vascular smooth muscle and endothelial cells.	
Pathway	: TGF-beta/Smad	
Target	: TGFR	
Receptor	: TGFβ	
Solubility	: DMSO: < 9 mg/mL	
SMILES	: <chem>O=C1C=CC2=C(C(=O)C(C)C)C(=O)C1C=CC=C(C4=CC=CC=C4)C=C3OCC</chem>	
Storage	: (-20°C)	
Stability	: ≥ 2 years	
Reference	:	

1. Willems E, et al. Cell Stem Cell. 2012 Aug 3;11(2):242-52. | 2. Sun Z, et al. Dev Biol. 2017 Jan 15;421(2):149-160. | 3. Mingyuan X, et al. Oncotarget. 2017 Dec 14;9(3):3188-3197.