BioVision

PRODUCT: ITD-1

ALTERNATE NAME: 4-[1,1'-Biphenyl]-4-yl-1,4,5,6,7,8-hexahydro-2,7,7-trimethyl-5-

oxo-3-quinolinecarboxylic acid ethyl ester

CATALOG #: 2879-10, 50

AMOUNT: 10 mg, 50 mg

STRUCTURE:

MOLECULAR FORMULA: C₂₇H₂₉NO₃

MOLECULAR WEIGHT: 415.52

CAS NUMBER: 1099644-42-4

APPEARANCE: Off-white solid

SOLUBILITY: DMSO (~8 mg/ml) or EtOH (~4 mg/ml with warming)

PURITY: ≥98% by HPLC

STORAGE: Store at -20 °C. Protect from air and light

DESCRIPTION: ITD-1 is a potent and highly selective TGFβ pathway inhibitor

(IC $_{50}$ = 0.85 μ M). ITD-1 promotes cardiomyocyte differentiation specifically via degradation of the TGF β type II receptor (TGFBR2), effectively clearing the receptor from the cell surface and selectively inhibiting intracellular signaling (IC $_{50}$ 0.4–0.8 μ M), revealing a role for TGF β signaling mechanism as a repressor of cardiomyocyte fate. ITD-1 does not induce differentiation of vascular smooth muscle cells or

endothelial cells.

REFERENCES: Willems, E., et al. (2012). Cell Stem Cell 11, 242-252.

HANDLING: Do not take internally. Wear gloves and mask when handling

the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

A83-01 (Cat. No. 1725-1)

03/15

EZSolution™ A83-01, Sterile-Filtered (Cat. No. 1989-1)

GW788388 (Cat. No. 2820-10, 50) LY364947 (Cat. No. 2646-1,5) RepSox (Cat. No. 1894-5, 25)

EZSolution™ RepSox (Cat. No. 2641-5)

SB-431542 (Cat. No. 1674-1, 5)

EZSolution™ SB-431542, Sterile-Filtered (Cat. No. 1992-1)

SMAD3 Inhibitor, SIS3 (Cat. No. 2227-1, 5)

USAGE: FOR RESEARCH CH USE ONLY! Not to be used in humans