

TGF- β 2-IN-1

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	TGF- β 2-IN-1 is a selective inhibitor of TGF- β 2. It exhibits potent antiproliferative effects on HCT-116, Caco-2, and HT-29 cells, with IC ₅₀ values of 6.84, 10.21, and 9.47 μ M, respectively. TGF- β 2-IN-1 inhibits TGF- β 2 signaling in a dose-dependent manner by suppressing receptor and cytokine expression. This compound is useful for colorectal cancer research.
Targets(IC ₅₀)	TGF-beta/Smad
In vitro	TGF- β 2-IN-1 (Compound 10k) exhibits potent antiproliferative effects on HCT-116 (IC ₅₀ = 6.84 μ M), Caco-2 (IC ₅₀ = 10.21 μ M), and HT-29 (IC ₅₀ = 9.47 μ M) at concentrations of 1.562-100 μ M over 48 hours. It progressively reduces TGF- β 2 receptor and cytokine levels in HCT-116 cells within the same concentration and time frame. At 50-100 μ M for 48 hours, it does not significantly induce apoptosis or necrosis in HCT-116 cells. The compound demonstrates strong binding affinity to the TGF- β receptor II with an IFD XP Glide score of 11.28 kcal/mol.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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