

ICG-001

Catalog No: tcsc0273



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

780757-88-2

Formula:

$C_{33}H_{32}N_4O_4$

Pathway:

Stem Cell/Wnt

Target:

Wnt

Purity / Grade:

>98%

Solubility:

H₂O :

Observed Molecular Weight:

548.63

Product Description

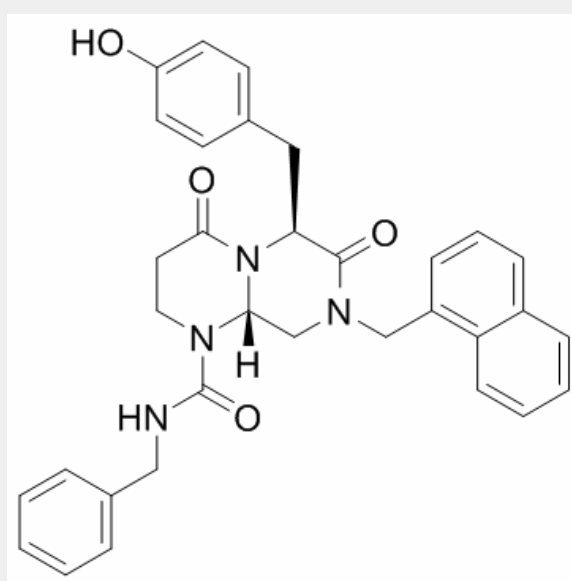
ICG-001 is an antagonist of **Wnt/β-catenin**/TCF-mediated transcription and specifically binds to element-binding protein (CBP) with **IC₅₀**

of 3 μ M.

IC50 & Target: IC50: 3 μ M (CBP)

In Vitro: ICG-001 (5 μ M) inhibits leptin-induced EMT, invasion and tumorsphere formation in MCF7 cells^[1]. ICG-001 can phenotypically rescue normal nerve growth factor (NGF)-induced neuronal differentiation and neurite outgrowth in the presenilin-1 mutant cells, emphasizing the importance of the TCF/ β -catenin signaling pathway on neurite outgrowth and neuronal differentiation^[2]. ICG-001 (25 μ M) treatment reduces the steady-state levels of Survivin and Cyclin D1 RNA and protein in SW480 cells, both of which can be up-regulated by β -catenin. ICG-001 selectively induces apoptosis in transformed cells but not in normal colon cells, and reduces in vitro growth of colon carcinoma cells^[3].

In Vivo: ICG-001 (5 mg/kg per day) significantly inhibits beta-catenin signaling and attenuates bleomycin-induced lung fibrosis in mice, while concurrently preserving the epithelium^[2]. Administration of a water-soluble analog of ICG-001 for 9 weeks reduces the formation of colon and small intestinal polyps by 42% as effectively as the nonsteroidal antiinflammatory agent Sulindac, which has consistently demonstrated efficacy in this model. ICG-001 (150 mg/kg, i.v.) demonstrates a dramatic reduction in tumor volume over the 19-day course of treatment, with no mortality or weight loss in the SW620 nude mouse xenograft model of tumor regression^[3].



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