ICG-001
Kinase Inhibitor

Kinase Inhibitor Name: ICG-001
Catalog Number: E1KS2662
Quantity: 5mg

1. PHYSICAL AND CHEMICAL PROPERTIES

M.Wt: 548.63
Formula: C₃₃H₃₂N₄O₄
Solubility: DMSO ≥110 mg/mL Water <1 mg/mL Ethanol ≥45 mg/mL
Stability:
- 2 years -20℃ Powder
- 1 week -4℃ in DMSO
- 1 month -80℃ in DMSO
CAS No.: 780757-88-2
Molecular Structure:

2. Biological Activity

ICG-001 is a selective Wnt/β-catenin signalling inhibitor with an IC50 of 3μM. After selectively binding of ICG-001 to the NH2 terminus of cyclic AMP response element binding protein (CREB), ICG-001 prevented beta-catenin/TCF signaling. ICG-001 elevated the activities of caspase in colon carcinoma cell lines, but not normal cells via down regulation of survivin. It is exhibited that ICG-001 rescues defects in neuronal differentiation and reverse pulmonary fibrosis. ICG-001 also suppressed the interaction between CREB and γ-catenin. [1] ICG-001 selectively induces apoptosis in transformed cells but not in normal colon cells. And ICG-001 reduces in vitro growth of colon carcinoma cells. ICG-001 efficaciously treated the colon cancer in the Min mouse and nude mouse xenograft models. [2]

3. References:

The pharmacological and toxicological properties of this product have not been fully investigated. Exercise caution in use and handling. This product must not be used in humans.