



Data Sheet

Research Use Only

Compound Name

IM-12

Catalog Number

SM04

Alternative Names

GSK-3 β Inhibitor, GSK-3 beta, 3-(4-Fluorophenylethylamino)-1-methyl-4-(2-methyl-1H-indol-3-yl)-1H-pyrrole-2,5-dione

Activity

IM-12 is a cell-permeable indolylmaleimide that acts as a Glycogen synthase kinase 3 β (GSK-3 β) inhibitor, activating downstream components of canonical Wnt signaling.

Effect

IM-12 significantly increases β -catenin levels. IM-12 leads to TCF-induction and promotes neuronal differentiation in human neural progenitor cells by activating Wnt pathway. IM-12 when combined with other small molecules supports the self-renewal of naive human embryonic stem cells and maintenance of ground state pluripotency.

Purity

>98%

CAS Number

1129669-05-1

Formula

C₂₂H₂₀FN₃O₂

Molecular Weight

377.41

Solubility

DMSO

Stability

Stable at -20°C. Keep away from direct sunlight.

References

- Schmole, AC., et al. 2010. Bioorg Med Chem. 18(18): 6785-6795. PMID: 20708937
- Theunissen, TW. et al. 2014. Cell Stem Cell. 15(4): 471-487. PMID: 25090446