
Product Data Sheet

Product Name: CCT 031374 hydrobromide

Cat. No.: GC10253

Chemical Properties

Cas. No. 1219184-91-4

Chemical Name 1-([1,1'-biphenyl]-4-yl)-2-(2H-benzo[d]imidazo[1,2-a]imidazol-9(3H)-yl)ethanone hydrobromide

SMILES O=C(C1=CC=C(C2=CC=CC=C2)C=C1)CN3C4=CC=CC=C4N5CCN=C53.Br

Formula $C_{23}H_{19}N_3O.HBr$

M.Wt 434.33

Solubility <21.72mg/ml in DMSO

Storage Desiccate at RT

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure

Background

CCT 031374 hydrobromide is a selective inhibitor of Wnt/ β -catenin signaling pathway [1].

The Wnt/ β -catenin pathway is activated by the binding of Wnt ligand to a complex comprising LRP5/6 and Frizzled (Fz) receptors and then activates transcription factor/ β -catenin-dependent transcription [1].

CCT 031374 hydrobromide is a selective Wnt/ β -catenin signaling pathway inhibitor. CCT031374 inhibited BIO-induced β -catenin accumulation in L-cells with IC₅₀ value of 6.1 μ M. In HCT116 human colon cancer cell line, CCT031374 inhibited cell proliferation by inducing apoptosis. In mouse L-cells, BIO, a GSK-3 inhibitor, significantly increased total β -catenin levels. While CCT031374 inhibited BIO-induced accumulation of β -catenin in both nuclear and cytosolic. In U2OS GFP- β -catenin human osteosarcoma cells, CCT031374 induced the formation of GFP- β -catenin aggregates. In human neurogenic embryoid bodies, CCT031374 reduced the mRNA levels of endogenous LEF1. Also,

Caution: Product has not been fully validated for medical applications. For research use only.

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CCT031374 inhibited cell growth with GI values of 11.5, 13.9, 13.2, 9.6 and 44 μ M in HT29, HCT116, SW480, SNU475 and CCD841Co cancer cell lines, respectively [1].

Reference:

[1]. Ewan K, Pajak B, Stubbs M, et al. A useful approach to identify novel small-molecule inhibitors of Wnt-dependent transcription. *Cancer Res*, 2010, 70(14): 5963-5973.

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