

Product Data Sheet

Product Name: CB-6644

Cat. No.: GC34317

Chemical Properties

Cas. No. 2316817-88-4

SMILES COCC1=C(NC(CC(C)(C)CNC(C2=C(OCC)C=C(F)C(Cl)=C2)=O)=O)C(N(N1CCC3)C4=C3C=CC=C4)=O

Formula C₂₉H₃₄ClFN₄O₅ M.Wt 573.06

Solubility DMSO: 100 mg/mL (174.50 mM) Storage Store at -20°C

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.

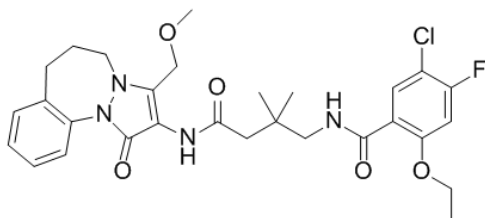
Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

CB-6644 is a selective inhibitor of RUVBL1/2 complex with anti-cancer activity. CB-6644 blocks the ATPase activity of RUVBL1/2 with an IC₅₀ of 15 nM[1].

CB-6644 (20 µM) interacts with the RUVBL1/2 complex in Ramos cells[1]. CB-6644 (0.4 µM, 80 hours) dramatically inhibits HCT116 cells growth rate and robustly induces apoptosis. Z-VAD-FMK alone does not influence the growth or viability of the cells. However, blockade of caspase activity by Z-VAD-FMK results in a partial recovery of the growth of cells treated with CB-6644[1].|| Cell Viability Assay[1]||Cell Line:|HCT116 cells|Concentration:|0.4 µM|Incubation Time:|80 hours|Result:|Inhibited dramatically cell growth rate.

CB-6644 (150 mg/kg, oral administration, 10 days of treatment for SCID-beige mice bearing Ramos xenograft models, 30 days of treatment for SCID-beige mice bearing RPMI8226 xenograft models) has antitumor activity in xenograft tumor models with tumor growth inhibitions (TGIs) of 68 and 81%, respectively in Ramos xenograft models and RPMI8226 xenograft models[1].|| Animal Model:|SCID-

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beige mice bearing human tumor xenografts derived from either Burkitt's lymphoma (Ramos) or multiple myeloma (RPMI8226) cell lines[1]|Dosage:|150 mg/kg|Administration:|Oral gavage once (qd) or twice (BID) daily, 10 days of treatment for Ramos, 30 days of treatment for RPMI8226|Result:|There was no significant bodyweight loss in mice. TGI of 68 and 81% in Ramos and RPMI8226, respectively.

[1]. Assimon VA, et al. CB-6644 Is a Selective Inhibitor of the RUVBL1/2 Complex with Anticancer Activity. ACS Chem Biol. 2019 Feb 15;14(2):236-244.

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