
Product Data Sheet

Product Name: CG-200745

Cat. No.: GC35668

Chemical Properties

Cas. No. 936221-33-9

SMILES O=C(NCCCN(C)C)/C(COC1=C2C=CC=CC2=CC=C1)=C/CCCCC(NO)=OFormula C₂₄H₃₃N₃O₄ M.Wt 427.54

Solubility Soluble in DMSO 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.

Structure **Background**

CG-200745 is a potent HDAC inhibitor, with IC₅₀s of <3 μM for sensitive non-small cell lung cancer (NSCLC) cell lines. CG-200745 induces the accumulation of p53, promotes p53-dependent transactivation, and enhances the expression of proteins encoded by p53 target genes, MDM2 and p21 (Waf1/Cip1) in human prostate cancer cells[1]. CG-200745 attenuates phosphorylation of p38 MAPK in kidneys and it has a renoprotective effect by suppressing renal fibrosis and inflammation in a unilateral ureteral obstruction (UUO) mouse model[2]. HDAC p38 MAP kinase p53

CG-200745 (0-10 μM; 48 hours) reduces the Calu6 cells proliferation to 40% of untreated cells[1]. CG-200745 (3 μM; 1-24 hours) significantly increases Calu6 cells proportion in G2/M phase (69%)[1]. CG-200745 (0-10 μM; 1-24 hours) treatment with low concentration significantly increases the acetylation of histone H3 and H4 in Calu6 cells at various sites in a time-dependent manner up to 24 hours after treatment[1]. Cell Proliferation Assay[1] Cell Line: Calu6 cells

CG-200745 (p.o.; 30 mg/kg/day; for 7 days) attenuates oxidative stress, inflammatory cytokines, and adhesion molecules in UUO kidneys[2]. Animal Model: Male 8-week-old

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

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C57BL/6 J mice weighing 20~22 g of unilateral ureteral obstruction (UUO)[2]

[1]. Chun SM, et al. Epigenetic modulation with HDAC inhibitor CG200745 induces anti-proliferation in non-small cell lung cancer cells. PLoS One. 2015 Mar 17;10(3):e0119379.

[2]. Choi HS, et al. Histone deacetylase inhibitor, CG200745 attenuates renal fibrosis in obstructive kidney disease. Sci Rep. 2018 Aug 1;8(1):11546.

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