

Product Data Sheet

Product Name: iHCK-37
Cat. No.: GC63606

Chemical Properties

Cas. No. 516478-09-4

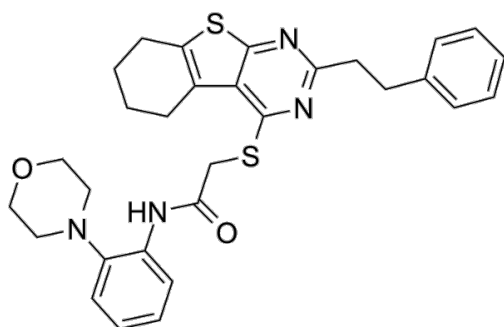
Formula $C_{30}H_{32}N_4O_2S_2$ M.Wt 544.73

Solubility DMSO : 275 mg/mL (504.84 mM; Need ultrasonic) 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

iHCK-37 (ASN05260065) is a potent and specific Hck inhibitor with a K_i value of 0.22 μ M. iHCK-37 blocks HIV-1 viral replication with an EC_{50} value of 12.9 μ M. iHCK-37 is used for chronic myeloid leukemia (CML) research[1].

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

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iHCK-37 (5.0-20 μ M; 24 hours) exhibits a potent in vitro antiproliferative activity. The dose (μ M) for growth inhibition (GI50) is 5.0-5.8 μ M for AML cell lines (HL60, KG1a and U937) and 9.1-19.2 μ M for chronic myeloid leukemia cell lines (HEL and K562)[2]. iHCK-37 (3-9 μ M; plus Erythropoietin) leads to a decrease in ERK, AKT and P70S6K phosphorylation of in lentivirus HCK silenced K562 and U937 cell lines[2]. iHCK-37 (3-9 μ M) results in a decrease of p-HCK, p-ERK, p-AKT, p-70S6 in the cell line KG1a (AML/CD34+), in a dose-dependent manner[2].

[1]. Cristina Tintori, et al. Identification of Hck inhibitors as hits for the development of antileukemia and anti-HIV agents. ChemMedChem. 2013 Aug;8(8):1353-60.

[2]. Fernanda Marconi Roversi, et al. Hematopoietic cell kinase (HCK) is a potential therapeutic target for dysplastic and leukemic cells due to integration of erythropoietin/PI3K pathway and regulation of erythropoiesis: HCK in erythropoietin/PI3K pathway. Biochim Biophys Acta Mol Basis Dis. 2017 Feb;1863(2):450-461.

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