

Product Data Sheet

Product Name: DDR1-IN-1 dihydrochloride

Cat. No.: GC35822

Chemical Properties

Cas. No. 1780303-76-5

SMILES CC1=C(C=C(C=C1)NC(C2=CC=C(C(C(F)(F)F)=C2)CN3CCN(CC3)CC)=O)OC4=CC(C5)=C(C=C4)NC5=O.Cl.Cl

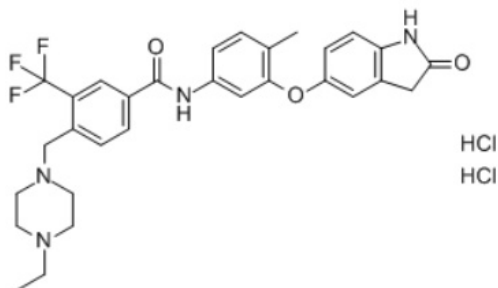
Formula $C_{30}H_{33}Cl_2F_3N_4O_3$ M.Wt 625.51

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

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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

Product Data Sheet

DDR1-IN-1 dihydrochloride is a potent and selective DDR1 receptor tyrosine kinase inhibitor with an IC₅₀ of 105 nM; 4-fold less potent for DDR2 (IC₅₀ = 413 nM)[1]. DDR1|105 nM (IC₅₀)|DDR2|413 nM (IC₅₀)

DDR1-IN-1 effectively blocks collagen-induced DDR1 pY513 autophosphorylation in U2OS cells (EC₅₀ = 86.76 nM) with excellent selectivity over a panel of >380 kinases. DDR1-IN-1 inhibits DDR2-mediated MT1-MMP activation in human rheumatoid synovial fibroblasts (RASf) upon collagen stimulation (IC₅₀ < 2.5 μM) and enhances PI3K/mTOR inhibitor GSK2126458 antiproliferation efficacy in SNU-1040 colorectal cancer culture[1].

[1]. Kim HG, et al. Discovery of a potent and selective DDR1 receptor tyrosine kinase inhibitor. ACS Chem Biol. 2013 Oct 18;8(10):2145-50.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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