

Product Data Sheet

Product Name: CPL304110

Cat. No.: GC62274

Chemical Properties

Cas. No. 1627826-19-0

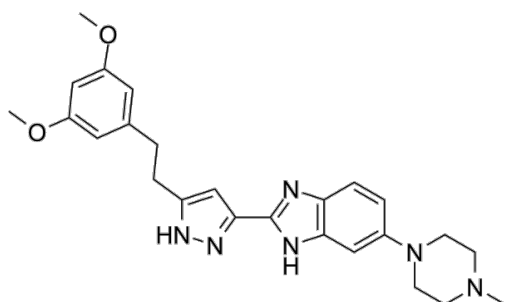
Formula $C_{25}H_{30}N_6O_2$ M.Wt 446.54

Solubility DMSO : 100 mg/mL (223.94 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

CPL304110 is a potent, orally active and selective inhibitor of fibroblast growth factor receptors

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

FGFR (1-3), with IC50 values of 0.75 nM, 0.5 nM, and 3.05 nM for FGFR (1-3), respectively[1].

CPL304110 (0-0.6 μ M) dose-dependently inhibits FGFR2 phosphorylation and downstream signaling (p-ERK)[1].CPL304110 (compound 56q) exhibits in SNU-16 proliferation assay with an IC50 of 85.64 nM[1].CPL304110 (compound 56q) demonstrates a more than 45-fold, 345-fold, 395-fold and 680-fold selectivity over KDR (VEGFR2), Flt3, Aura A and PDGFRb, respectively relative to FGFR2, and no significant inhibitory effects were observed with other tyrosine kinases[1].

CPL304110 (p.o., 40 mg/kg) exhibits a t1/2 of 2 h and Cmax of 3369 ng/mL in mice[1].CPL304110 (compound 56q, 2 X 20 mg/kg) significantly inhibits tumor growth in mice without significant body loss or any toxicity. On day 21 (D21, day of termination) the tumor growth inhibition (TGI) is 64% for dosing 20 mg/kg twice a day[1].

[1]. Abdellah Yamani, et al. Discovery and optimization of novel pyrazole-benzimidazole CPL304110, as a potent and selective inhibitor of fibroblast growth factor receptors FGFR (1-3). Eur J Med Chem. 2020 Nov 7;112990.

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