

Product Data Sheet

Product Name: HPK1-IN-2 dihydrochloride

Cat. No.: GC73012

Chemical Properties

Cas. No. 2375595-72-3

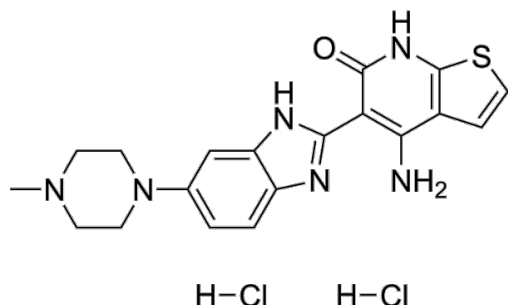
Formula $C_{19}H_{22}Cl_2N_6OS$ M.Wt 453.39

Solubility DMSO : 100 mg/mL (220.56 mM; Need ultrasonic); H_2O : 25 mg/mL (55.14 mM; Need ultrasonic) Storage 4°C, sealed storage, away from moisture and light

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

HPK1-IN-2 dihydrochloride is a potent and orally active hematopoietic progenitor kinase-1 (HPK1) inhibitor ($IC_{50} < 0.05 \mu M$) with antitumor activity. HPK1-IN-2 dihydrochloride also inhibits Lck ($0.05 \mu M < IC_{50} < 0.5 \mu M$) and Flt3 ($IC_{50} < 0.05 \mu M$) kinase activities.

In a-CD3 stimulated Jurkat E6. 1 cells, HPK1-IN-2 (example A1) inhibits SLP76 serine 376 phosphorylation and ERK1/2 T202/Y204 phosphorylation with IC_{50} values of 0.3-1 μM and $> 3 \mu M$,

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

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respectively[1].

HPK1-IN-2 (example A1; 75-150 mg/kg; oral gavage; daily; for 21 days) treatment shows a dose-dependently tumor growth inhibition, with 75 mg/kg and 150 mg/kg QD inhibiting tumour growth by 44% and 64%, respectively[1].

References:

[1]. Peter Brent Sampson, et al. Hpk1 inhibitors and methods of using same. WO2016205942A1.

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