
Product Data Sheet

Product Name: CDK8-IN-1
Cat. No.: GC33180

Chemical Properties

Cas. No. 1629633-48-2

SMILES NC(C1=C(C(F)(F)F)C(C2=CC=NC=C2)=CN1)=O

Formula $C_{11}H_8F_3N_3O$ M.Wt 255.2

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

Protocol**Animal experiment:**

Mice[1] CDK8-IN-1 is administered to mice with 5 mg/kg, 25mg/mg by IV and PO respectively[1].

References:

[1]. Han X, et al. Discovery of potent and selective CDK8 inhibitors through FBDD approach. Bioorg Med Chem Lett. 2017 Sep 15;27(18):4488-4492.

Background

CDK8-IN-1 is a potent and selective CDK8 inhibitor with an IC50 of 3 nM.

CDK8-IN-1 displays low systemic clearance, very good exposure and oral bioavailability. The tmax is 0.25 h by PO. The mean values of Cmax are 9940 µg/L, 12740 µg/L by IV

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

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and PO respectively. The values of AUC are 9378, 25952 by IV and PO respectively[1].

[1]. Han X, et al. Discovery of potent and selective CDK8 inhibitors through FBDD approach. Bioorg Med Chem Lett. 2017 Sep 15;27(18):4488-4492.

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