

Product Data Sheet

Product Name: GSK2141795

Cat. No.: GC12305

Chemical Properties

Cas. No. 1047634-65-0

Chemical Name N-((S)-1-amino-3-(3,4-difluorophenyl)propan-2-yl)-5-chloro-4-(4-chloro-1-methyl-1H-pyrazol-5-yl)furan-2-carboxamide

SMILES CN1C(C(C=C(O2)C(N[C@@](CN)([H])CC3=CC(F)=C(F)C=C3)=O)=C2Cl)=C(Cl)C=N1

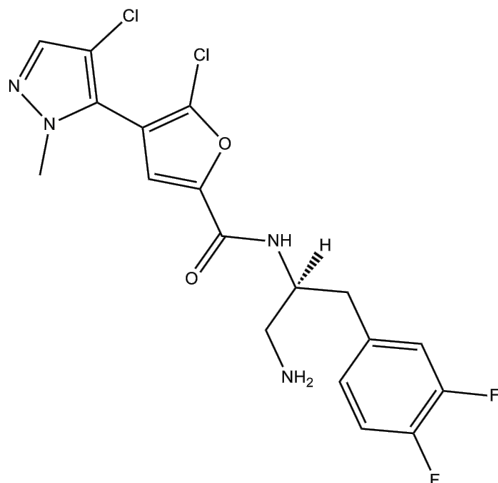
Formula $C_{18}H_{16}Cl_2F_2N_4O_2$ M.Wt 429.25

Solubility DMF: 1 mg/ml, DMSO: 1 mg/ml 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

Uprosertib (GSK2141795) is a potent and selective pan-Akt inhibitor with IC₅₀ values of 180/328/38 nM for Akt1/Akt2/Akt3, respectively.

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

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Uprosertib (GSK2141795) inhibits Akt1/2/3 with the K_d values of 16/49/5 nM, respectively. Uprosertib potently inhibits only the PKC family members PRKACA and PRKACB as well as the cGMP-dependent protein kinase PRKG1 apart from the Akts. Protein targets that bind Uprosertib (GSK2141795) in the lysate show a dose-dependent reduction in binding to the kinobeads, while proteins unaffected by the drug show no reduction in binding[1].

References:

- [1]. Pachl F, et al. Characterization of a chemical affinity probe targeting Akt kinases. J Proteome Res. 2013 Aug 2;12(8):3792-800.
- [2]. Jacobsen K, et al. Convergent Akt activation drives acquired EGFR inhibitor resistance in lung cancer. Nat Commun. 2017 Sep 4;8(1):410.

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