

Product Data Sheet

Product Name: IACS-10759 Hydrochloride

Cat. No.: GC36286

Chemical Properties

Cas. No. 1807523-99-4

SMILES FC(F)(F)OC1=CC=C(C2=NOC(C3=NN(CC4=CC(N5CCC(S(=O)(C)=O)CC5)=CC=C4)C(C)=N3)=N2)C=C1.Cl

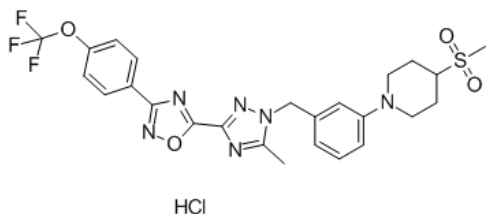
Formula $C_{25}H_{26}ClF_3N_6O_4S$ M.Wt 599.02

Solubility DMSO: ≥ 100 mg/mL (166.94 mM); Storage Store at $-20^{\circ}C$
Water: < 0.1 mg/mL (insoluble)

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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.

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IACS-10759 Hydrochloride is a potent inhibitor of complex I of oxidative phosphorylation (OXPHOS). OXPHOS[1]

IACS-10759 inhibits the conversion of NADH to NAD⁺ in an immunoprecipitated complex I assay at low nM concentrations[1].

IACS-10759 is orally bioavailable with excellent physicochemical properties in preclinical species and achieves significant in vivo efficacy with daily oral dosing of 10-25 mg/kg. There is a >50 day extension of median survival in an orthotopic AML cell line xenograft and robust regression in DLBCL and GBM xenograft models[1].

[1]. Protopopova M. IACS-10759: A novel OXPHOS inhibitor which selectively kill tumors with metabolic vulnerabilities. [abstract]. In: Proceedings of the 106th Annual Meeting of the American Association for Cancer Research; 2015 Apr 18-22; Philadelphia, PA. Philadelphia (PA): AACR; Cancer Res 2015;75(15 Suppl):Abstract nr 4380. doi:10.1158/1538-7445.AM2015-4380

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