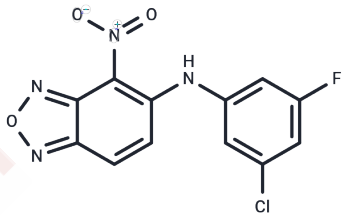
Data Sheet (Cat.No.T17009)

TargetMol

TC-S 7009

Chemical Properties



CAS No. : 1422955-31-4

Formula: C12H6ClFN4O3

Molecular Weight: 308.65

Storage: Store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	TC-S 7009 is a potent and selective HIF-2α inhibitor (Kd: 81 nM) with significantly higher affinity for HIF-2α than HIF-1α (Kd >> 5μM). TC-S 7009 disrupts HIF-2α heterodimerization, reduces HIF-2α target gene expression, and diminishes DNA binding activity.
Targets(IC50)	HIF/HIF Prolyl-Hydroxylase,HIF
In vitro	TC-S 7009 (50 μM) treatment almost fully inhibits hypoxia-induced NFATc2 nuclear translocation. TC-S 7009 (0-100μM; 72 hours; HPF cells) treatment displays greater inhibition of cell proliferation in hypoxic conditions than that in normoxic conditions [2].

Solubility Information

Solubility	DMSO: 45 mg/mL (145.8 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2399 mL	16.1996 mL	32.3992 mL
5 mM	0.648 mL	3.2399 mL	6.4798 mL
10 mM	0.324 mL	1.620 mL	3.2399 mL
50 mM	0.0648 mL	0.324 mL	0.648 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Scheuermann TH, et al. Allosteric inhibition of hypoxia inducible factor-2 with small molecules. Nat Chem Biol. 2013;9(4):271-276.
Senavirathna LK, et al. Hypoxia induces pulmonary fibroblast proliferation through NFAT signaling. Sci Rep. 2018;8(1):2709.