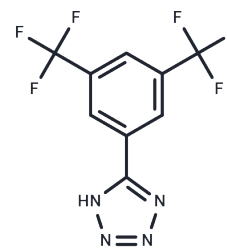


KG-548

Chemical Properties

CAS No. : 175205-09-1
 Formula: C₉H₄F₆N₄
 Molecular Weight: 282.15
 Storage: 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	KG-548 is a dual inhibitor of ARNT/TACC3 and HIF-1 α , binding to the β -fold surface involved in HIF-2 dimerization and coactivator recruitment, inhibiting lactate production and useful in cancer research.
Targets(IC50)	HIF/HIF Prolyl-Hydroxylase, Microtubule Associated, HIF
In vitro	KG-548 (50 μ M) significantly inhibited lactic acid production. [1] KG-548 (1 mM) significantly interfered with the binding of ARNT to one or both co-activators. KG-548 (0-2 mM, 16 h) decomposed the (320 μ M) ARNT PAS-B/TACC3 complex in a dose-dependent manner in vitro and in cell lysates with an IC ₅₀ of 25 μ M. [2]

Solubility Information

Solubility DMSO: 80 mg/mL (283.54 mM), Sonication is recommended.
 (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5442 mL	17.7211 mL	35.4421 mL
5 mM	0.7088 mL	3.5442 mL	7.0884 mL
10 mM	0.3544 mL	1.7721 mL	3.5442 mL
50 mM	0.0709 mL	0.3544 mL	0.7088 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

Kleszcz R, et al. The inhibition of c-MYC transcription factor modulates the expression of glycolytic and glutaminolytic enzymes in FaDu hypopharyngeal carcinoma cells. *Adv Clin Exp Med*. 2018 Jun;27(6):735-742.

Guo Y, et al. Regulating the ARNT/TACC3 axis: multiple approaches to manipulating protein/protein interactions with small molecules. *ACS Chem Biol*. 2013 Mar 15;8(3):626-35.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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