PKM2 activator 2

Cat. No.: HY-147368

CAS No.: 1186660-06-9

Molecular Formula: $C_{20}H_{18}F_2N_2O_4S_2$

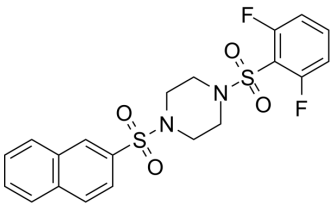
Molecular Weight: 452.49

Target: Pyruvate Kinase

Pathway: Metabolic Enzyme/Protease

Storage:

Powder	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5 mg/mL (11.05 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2100 mL	11.0500 mL	22.0999 mL
	5 mM	0.4420 mL	2.2100 mL	4.4200 mL
	10 mM	0.2210 mL	1.1050 mL	2.2100 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.60 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PKM2 activator 2 (compound 28) is a pyruvate kinase M2 (PKM2) activitor with an AC_{50} value of 66 nM. PKM2 activator 2 can restore normal glycolytic metabolism in cells[1].

IC_{50} & Target

PKM2
66 nM (EC50)

In Vitro

PKM2 leads to increased availability of glycolyctic intermediates for biosynthesis of amino acids, nucleic acids, and lipid building blocks for cellular construction in cancer cells. However, PKM2 shows down-regulated expression and dimeric form in tumors and cancer cell lines [1].

PKM2 activator 2 (compound 28) is a highly potent activator, activates pyruvate kinase with an AC_{50} value of 66 nM in the luciferase-coupled assay[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Boxer MB, et al. Evaluation of substituted N,N'-diarylsulfonamides as activators of the tumor cell specific M2 isoform of pyruvate kinase. J Med Chem. 2010 Feb 11;53(3):1048-55.

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