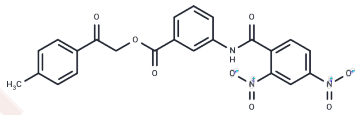
Data Sheet (Cat.No.T36711)

TargetMol

FM19G11

Chemical Properties



CAS No. : 329932-55-0

Formula: C23H17N3O8

Molecular Weight: 463.4

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	FM19G11 is an inhibitor of hypoxia inducible factor (HIF) α-subunit (IC50 = 80 nM in hypoxia induced luciferase assay).
Targets(IC50)	HIF/HIF Prolyl-Hydroxylase,HIF
In vitro	FM19G11 (500 nM) promotes oligodendrocyte differentiation under hypoxic conditions [1]. FM19G11 (300 nM) significantly enhances the pro-apoptotic effect of temozolomide, whereas FM19G11 does not induce apoptosis. In hypoxic GBM-XD, hypoxic T98G, and normoxic T98G cells, FM19G11 (300 nM) significantly inhibited the mRNA level of O6-methylguanine DNA-methyltransferase via the HIF-1α pathway[3].
In vivo	Intramedullary injection of FM19G11 improves locomotion in severe spinal cord injury and induces the expression of GAP43 and RIP at the injury[2].

Solubility Information

Solubility	DMSO: 90 mg/mL (194.22 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.158 mL	10.7898 mL	21.5796 mL
5 mM	0.4316 mL	2.158 mL	4.3159 mL
10 mM	0.2158 mL	1.079 mL	2.158 mL
50 mM	0.0432 mL	0.2158 mL	0.4316 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

Moreno-Manzano et al (2010) FM19G11, a new hypoxia-inducible factor (HIF) modulator, affects stem cell differentiation status. J.Biol.Chem. 285 1333
Alastrue-Agudo et al (2018) FM19G11 and ependymal progenitor/stem cell combinatory treatment enhances neuronal preservation and oligodendrogenesis after severe spinal cord injury. Int.J.Mol.Sci. 19 E200
You et al (2018) FM19G11 inhibits O6-methylguanine DNA-methyltransferase expression under both hypoxic and normoxic conditions. Cancer Med. 7 3292