Product Data Sheet

Product Name: FM19G11
Cat. No.: GC50537

Chemical Properties

Cas. No.	329932-55-0		
SMILES	CC1=CC=C(C(COC(C2=CC=CC(NC(C3=C([N+]([O-])=O)C=C([N+]([O-])=O)C=C3)=O)=C2)=O)=O)C=C1		
Formula	$C_{23}H_{17}N_3O_8$	M.Wt	463.4
Solubility	DMSO : 100 mg/mL (215.80 mM; Need ultrasonic)	Storage	Store at 4°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	FM19G11		

Background

Hypoxia inducible factor (HIF) α-subunit inhibitor (IC50 = 80 nM in hypoxia induced luciferase assay). Inhibits transcriptional activity of HIFα isoforms. Directly regulates expression and inhibits transcriptional activity of pluripotency markers (Sox2 and Oct4) in rodent and human stem cells under hypoxic conditions, driving differentiation. Improves locomotion after severe spinal cord injury in mice, alone or in combination with transplantation of ependymal stem cells of the spinal cord. Also inhibits O6-methylguanine DNA methyltransferase (MGMT) via HIF1α pathway, under normal and hypoxic conditions in glioblastoma cell lines.

Moreno-Manzano et al (2010) FM19G11, a new hypoxia-inducible factor (HIF) modulator, affects stem cell differentiation status. J.Biol.Chem. 285 1333 PMID:19897487 |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 PMID:29315225 |You et al (2018) FM19G11 inhibits O6-methylguanine DNA-methyltransferase expression under both hypoxic and normoxic conditions. Cancer Med. 7 3292 PMID:29761922

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