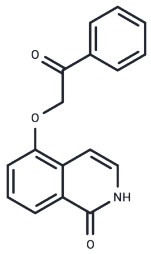
Data Sheet (Cat.No.T6181)

TargetMol

UPF 1069

Chemical Properties



CAS No. : 1048371-03-4

Formula: C17H13NO3

Molecular Weight: 279.29

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	UPF 1069 is a specific PARP2 inhibitor (IC50: 0.3 μM). It is ~27-fold selective against PARP1.
Targets(IC50)	PARP
In vitro	UPF 1069 is a selective PARP2 inhibitor with IC50 of 0.3 μM while inhibiting PARP1 with IC50 of 8 μM. [1]
In vivo	In organotypic hippocampal slices, PARP-2 inhibition with UPF-1069 (0.01-1 mM) causes a concentration-dependent exacerbation (up to 155%) of oxygen-glucose deprivation (OGD)-induced CA1 pyramidal cell death. Higher concentrations, acting on both PARP-1 and PARP-2, have no effect on OGD injury. In mouse mixed cortical cells exposed to OGD, UPF-1069 (1-10 mM) significantly reduces post-ischaemic damage. [1]

Solubility Information

Solubility	DMSO: 27.9 mg/mL (99.9 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5805 mL	17.9025 mL	35.8051 mL
5 mM	0.7161 mL	3.5805 mL	7.161 mL
10 mM	0.3581 mL	1.7903 mL	3.5805 mL
50 mM	0.0716 mL	0.3581 mL	0.7161 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.

Reference

Moroni F, et al. Br J Pharmacol, 2009, 157(5), 854-862.

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