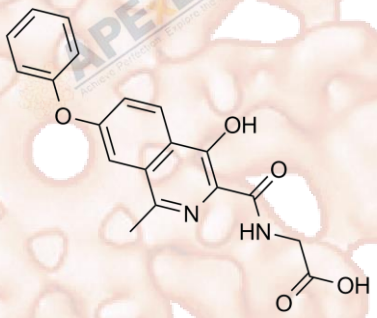
Product Data Sheet

FG-4592 (ASP1517)

Cat. No.: A4187
CAS No.: 808118-40-3
Formula: C19H16N2O5
M.Wt: 352.34
Synonyms:
Target: Angiogenesis
Pathway: HIF
Storage: Store at -20°C



Solvent & Solubility

In Vitro

insoluble in H2O; ⩾17.62 mg/mL in DMSO; ⩾2.9 mg/mL in EtOH with gentle warming and ultrasonic

Preparing Stock Solutions

Concentration \ Mass / Solvent	1mg	5mg	10mg
1 mM	2.8382 mL	14.1908 mL	28.3817 mL
5 mM	0.5676 mL	2.8382 mL	5.6763 mL
10 mM	0.2838 mL	1.4191 mL	2.8382 mL

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

Biological Activity

Shortsummary	HIF prolyl-hydroxylase inhibitor
IC_{50} & Target	

In Vitro

Cell Viability Assay

Cell Line:	PC-12 cells
Preparation method:	The solubility of this compound in DMSO is > 10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20 °C for several months.
Reacting conditions:	5, 20 or 50 μM

	Applications:	FG-4592 showed significant protection effect against the TBHP-induced cell death.
In Vivo	**Animal experiment**	
	Animal models:	Mouse model of spinal cord injury
	Dosage form:	50mg/kg/day; i.p.; for 7 days
	Applications:	In a mouse model of spinal cord injury, FG-4592 administration improved recovery and increased the survival of neurons in spinal cord lesions.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

1. LUKE ERBER. "Functional Proteomics Analysis To Discover And Characterize Oxygen-Dependent Cellular Pathways." UNIVERSITY OF MINNESOTA. 2019.

2. Kiriakidis S, Hoer SS, et al. "Complement C1q is hydroxylated by collagen prolyl 4 hydroxylase and is sensitive to off-target inhibition by prolyl hydroxylase domain inhibitors that stabilize hypoxia-inducible factor." Kidney Int. 2017 May 12. pii: S0085-2538(17)30180-1.PMID:28506759

See more customer validations on www.apexbt.com.

References

[1]. Wu K, Zhou K, Wang Y, Zhou Y, Tian N, Wu Y, Chen D, Zhang D, Wang X, Xu H, Zhang X. Stabilization of HIF-1α by FG-4592 promotes functional recovery and neural protection in experimental spinal cord injury. Brain Res. 2016 Feb 1;1632:19-26.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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