FB49

Cat. No.: HY-156278

Molecular Formula: $C_{17}H_{18}N_2O_6S$

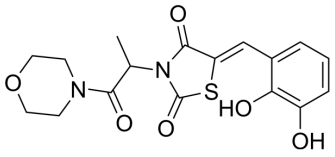
Molecular Weight: 378.4

Target: Apoptosis; Autophagy

Pathway: Apoptosis; Autophagy

Storage:

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



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (264.27 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.6427 mL	13.2135 mL	26.4271 mL
	5 mM	0.5285 mL	2.6427 mL	5.2854 mL
	10 mM	0.2643 mL	1.3214 mL	2.6427 mL

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

BIOLOGICAL ACTIVITY

Description

FB49 is a highly selective inhibitor of Bcl-2-associated athanogene 3 (BAG3), with the K_i of 45 μM. FB49 inhibits the cell growth in human tumoral cells, but has no toxicity in human peripheral mononuclear cells. FB49 block cell cycle in G1 phase and to induce apoptosis as well as autophagy in medulloblastoma HD-MB03 treated cells[1].

REFERENCES

[1]. Budassi F, et al. Design, synthesis and biological evaluation of novel 2,4-thiazolidinedione derivatives able to target the human BAG3 protein [published online ahead of print, 2023 Sep 22]. Eur J Med Chem. 2023;261:115824.

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