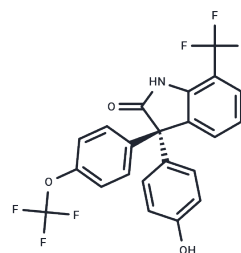


ErSO

Chemical Properties

CAS No. :	2407860-35-7
Formula:	C22H13F6NO3
Molecular Weight:	453.33
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	ErSO is a selective activator of anticipatory unfolded protein response (UPR) via ERα receptor. ErSO can be used in studies about anti-cancer.
Targets(IC50)	Others
In vitro	In MCF-7 cells, ErSO (1-1000 nM) inhibits cell viability with an IC50 of 20.3 nM. ErSO (1 μM) rapidly kills ERα-positive breast cancer cells in TYS and TDG cells and induces rapid killing of ERα-positive MCF-7 human breast cancer cells[1].
In vivo	ErSO (10 and 40 mg/kg; p.o.) induces >100000-fold regression (to undetectable amounts) within 14 days and >10000-fold regression of TYS-luciferase-expressing breast tumors in all five mice. In Nu/J mice, ErSO (10 or 40 mg/kg; p.o.) eliminates tumors with >90% reduction in all cases[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (220.6 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2059 mL	11.0295 mL	22.059 mL
5 mM	0.4412 mL	2.2059 mL	4.4118 mL
10 mM	0.2206 mL	1.1029 mL	2.2059 mL
50 mM	0.0441 mL	0.2206 mL	0.4412 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

Boudreau MW, et al. A small-molecule activator of the unfolded protein response eradicates human breast tumors in mice. Sci Transl Med. 2021;13(603):eabf1383.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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