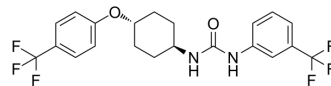


EIF2α activator 2

Cat. No.:	HY-147832		
CAS No.:	1501618-04-7		
Molecular Formula:	C ₂₁ H ₂₀ F ₆ N ₂ O ₂		
Molecular Weight:	446.39		
Target:	Eukaryotic Initiation Factor (eIF)		
Pathway:	Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (560.05 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.2402 mL	11.2010 mL	22.4019 mL
	5 mM	0.4480 mL	2.2402 mL	4.4804 mL
	10 mM	0.2240 mL	1.1201 mL	2.2402 mL

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

BIOLOGICAL ACTIVITY

Description

EIF2α activator 2 (Compound 1) is an activator of eukaryotic initiation factor 2 alpha (eIF2α) phosphorylation. EIF2α activator 2 exhibits high potency in SRB cell proliferation assays (IC₅₀=0.46 μM). EIF2α activator 2 exhibits antiproliferative activity against K562 and PBMC cells with IC₅₀s of 4.79 and 10.52 μM, respectively^[1].

REFERENCES

[1]. Jinsook Kwak, et al. A bioisosteric approach to the discovery of novel N-aryl-N'-[4-(aryloxy)cyclohexyl]squaramide-based activators of eukaryotic initiation factor 2 alpha (eIF2α) phosphorylation. *Eur J Med Chem.* 2022 May 29;239:114501.

Caution: Product has not been fully validated for medical applications. For research use only.

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