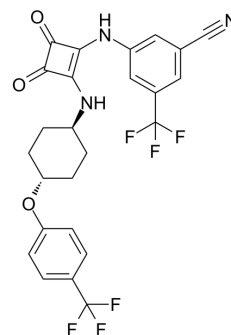


## EIF2α activator 1

<b>Cat. No.:</b>	HY-147831		
<b>CAS No.:</b>	2851820-52-3		
<b>Molecular Formula:</b>	C <sub>25</sub> H <sub>19</sub> F <sub>6</sub> N <sub>3</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	523.43		
<b>Target:</b>	Eukaryotic Initiation Factor (eIF)		
<b>Pathway:</b>	Cell Cycle/DNA Damage		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 25 mg/mL (47.76 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.9105 mL	9.5524 mL	19.1048 mL
5 mM	0.3821 mL	1.9105 mL	3.8210 mL
10 mM	0.1910 mL	0.9552 mL	1.9105 mL

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

### BIOLOGICAL ACTIVITY

#### Description

EIF2α activator 1 (Compound 40) is an activator of eukaryotic initiation factor 2 alpha (eIF2α) phosphorylation. EIF2α activator 1 increases the expression level of eIF2α downstream proteins, ATF and CHOP. EIF2α activator 1 exhibits antiproliferative activity against K562 and PBMC cells with IC<sub>50</sub>s of 4.00 and 19.3 μM, respectively<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

eIF2

### 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.

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

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