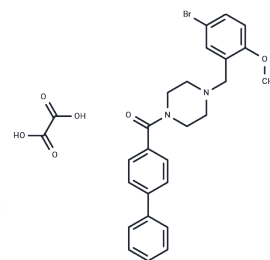


AMC-01

## Chemical Properties

CAS No. : 1047978-71-1  
 Formula: C<sub>27</sub>H<sub>27</sub>BrN<sub>2</sub>O<sub>6</sub>  
 Molecular Weight: 555.42  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
*Actual storage temperature shall be subject to the COA.*



## Biological Description

Description	AMC-01 has potential antiviral activity and induces dose- and time-dependent inactivation of eIF2- $\alpha$ via phosphorylation of serine residue 51. AMC-01 can be used to study atherosclerosis and Parkinson's syndrome.
Targets(IC50)	Apoptosis, Antiviral, PERK

## Solubility Information

Solubility	DMSO: 5.56 mg/mL (10.01 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	1.8004 mL	9.0022 mL	18.0044 mL
5 mM	0.3601 mL	1.8004 mL	3.6009 mL
10 mM	0.180 mL	0.9002 mL	1.8004 mL
50 mM	0.036 mL	0.180 mL	0.3601 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Hong MN, et al. The small molecule '1-(4-biphenylcarbonyl)-4-(5-bromo-2-methoxybenzyl) piperazine oxalate' and its derivatives regulate global protein synthesis by inactivating eukaryotic translation initiation factor 2- $\alpha$ . Cell Stress Chaperones. 2016 May;21(3):485-97.

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