



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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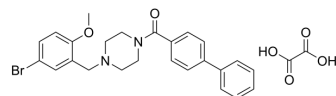
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## AMC-01

<b>Cat. No.:</b>	HY-114568
<b>CAS No.:</b>	1047978-71-1
<b>Molecular Formula:</b>	C <sub>27</sub> H <sub>27</sub> BrN <sub>2</sub> O <sub>6</sub>
<b>Molecular Weight:</b>	555.42
<b>Target:</b>	Eukaryotic Initiation Factor (eIF); Apoptosis
<b>Pathway:</b>	Cell Cycle/DNA Damage; Apoptosis
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

<b>Description</b>	AMC-01 is a potent chemical probe that regulates eIF2- $\alpha$ activity. AMC-01 induces protein kinase RNA activation (PKR) kinase and nuclear factor $\kappa$ B (NF- $\kappa$ B). AMC-01 inhibits apoptosis <sup>[1]</sup> .	
<b>In Vitro</b>	AMC-01 (25 $\mu$ M, 2 h) can inhibit apoptosis of rat neural progenitor cell CSM14.1 induced by Thapsigargin (HY-13433) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis <sup>[1]</sup>	
	Cell Line:	CSM 14.1
	Concentration:	25 $\mu$ M
	Incubation Time:	2 h
	Result:	Increased phosphorylation of eIF2- $\alpha$ , p38 MAPK and NF- $\kappa$ B p65.

## REFERENCES

[1]. 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.

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

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