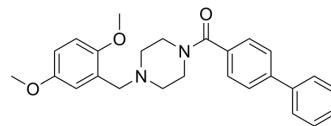


## AMC-04

Cat. No.:	HY-28325
CAS No.:	792928-94-0
Molecular Formula:	C <sub>26</sub> H <sub>28</sub> N <sub>2</sub> O <sub>3</sub>
Molecular Weight:	416.51
Target:	Reactive Oxygen Species; p38 MAPK
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; MAPK/ERK Pathway
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

Description	AMC-04 is an unfolded protein response (UPR) activator, which activates UPR pathway through ROS and p38 MAPK signaling and induces apoptotic cell death. AMC-04 can be used for cancer research <sup>[1]</sup> .
In Vitro	AMC-04 (10-40 μM, 24-48 h) induces apoptosis in MCF-7 cells time and dose dependently, up-regulates ER stress response genes and CHOP-dependent DR5 while inhibits H3K9 methyltransferase activity <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. Kim SY, et al. Molecular mechanisms underlying the effects of the small molecule AMC-04 on apoptosis: Roles of the activating transcription factor 4-C/EBP homologous protein-death receptor 5 pathway. Chem Biol Interact. 2020 Dec 1;332:109277.

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

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