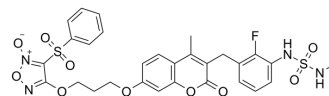


## MEK-IN-5

<b>Cat. No.:</b>	HY-143468
<b>CAS No.:</b>	2417022-06-9
<b>Molecular Formula:</b>	C <sub>29</sub> H <sub>27</sub> FN <sub>4</sub> O <sub>10</sub> S <sub>2</sub>
<b>Molecular Weight:</b>	674.67
<b>Target:</b>	Apoptosis; MEK
<b>Pathway:</b>	Apoptosis; MAPK/ERK Pathway
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



## BIOLOGICAL ACTIVITY

Description	MEK-IN-5 is a potent MEK inhibitor and NO donor. MEK-IN-5 significantly reduces the levels of pMEK and pERK in a dose-dependent and time-dependent manner. MEK-IN-5 induces apoptosis in MDA-MB-231 cells <sup>[1]</sup> .	
In Vitro	MEK-IN-5 (compound 18h) shows anti-proliferation activities for different tumor cells and low toxicity for normal cells <sup>[1]</sup> . MEK-IN-5 (0.1, 1, 10 μM; 1, 2, 4, 6 h) decreases the expression level of pMEK and pERK in a dose-dependent and time-dependent manner <sup>[1]</sup> . MEK-IN-5 (1, 10 μM; 24 h) induces apoptosis in MDA-MB-231 cells <sup>[1]</sup> . MEK-IN-5 (100 μM; 2h) significantly induce NO release in HCT116 cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Cell Proliferation Assay <sup>[1]</sup>	
	Cell Line:	MDA-MB-231, HCT116, A549, Vero, HL7702 cells
	Concentration:	
	Incubation Time:	
	Result:	Showed anti-proliferation activities in MDA-MB-231, HCT116, A549, Vero, HL7702 cells with IC <sub>50</sub> s of 0.034, 0.64, 1.35, 21.07, 5.62 μM, respectively.
	Western Blot Analysis <sup>[1]</sup>	
	Cell Line:	MDA-MB-231 cells
	Concentration:	0.1, 1, 10 μM
	Incubation Time:	1, 2, 4, 6 h
Result:	Decreased the expression level of pMEK and pERK in a dose-dependent and time-dependent manner.	
Apoptosis Analysis <sup>[1]</sup>		
Cell Line:	MDA-MB-231 cells	

Concentration:	1, 10 $\mu$ M
Incubation Time:	24 h
Result:	Induced apoptosis in MDA-MB-231 cells.

## REFERENCES

[1]. Wang C, et al. Hybrids of MEK inhibitor and NO donor as multitarget antitumor drugs. Eur J Med Chem. 2020; 196:112271.

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

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