## MKA031

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**MedChemExpress** 

Cat. No.:	HY-149308	
Molecular Formula:	C <sub>21</sub> H <sub>17</sub> N <sub>5</sub> O <sub>2</sub> S	
Molecular Weight:	403.46	
Target:	Macrophage migration inhibitory factor (MIF)	
Pathway:	Immunology/Inflammation	
Storage:	age: Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIVITY					
Description	MKA031 (compound 6y) is a non-competitive MIF inhibitor with an IC <sub>50</sub> value of 1.7 μM. MKA031 (compound 6y) interferes with MIF/AIF interaction, MIF nuclear translocation, and N-methyl-N'-nitro-N-nitrosoguanidine (MNNG)-induced dependent cell death. MKA031 can be used in the study of chronic hepatitis C virus infection <sup>[1]</sup> .				
In Vitro	MKA031 (compound 6y) (1-100 μl; 3 h) prevents MNNG-Induced Cell Death <sup>[1]</sup> .MKA031 (compound 6y) (100 μl;3 h) protects Genomic DNA by Blocking the Recruitment of MIF to AIF <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay <sup>[1]</sup>				
	Cell Line:	Hela cells			
	Concentration:	1-100 μΜ			
	Incubation Time:	3 h			
	Result:	Protected HeLa cells from MNNG-induced parthanatos in a dose dependent manner with an $EC_{50}$ of 7.7 $\mu M.$			
	Immunofluorescence <sup>[1]</sup>				
	Cell Line:	Hela cells			
	Concentration:	100 μΜ			
	Incubation Time:	3 h			
	Result:	Interfered with the MIF/AIF interaction and blocks MIF nuclear translocation.			

## REFERENCES

[1]. Chen D, et al. Allosteric Inhibitors of Macrophage Migration Inhibitory Factor (MIF) Interfere with Apoptosis-Inducing Factor (AIF) Co-Localization to Prevent Parthanatos. J Med Chem. 2023 Jul 13;66(13):8767-8781.

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

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