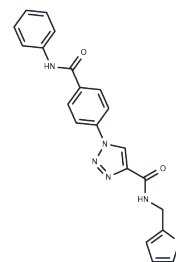


MKA031

Chemical Properties

CAS No. : 2951012-00-1
 Formula: C₂₁H₁₇N₅O₂S
 Molecular Weight: 403.46
 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	MKA031 (compound 6y) is a non-competitive inhibitor of macrophage migration inhibitory factor (MIF) with an IC ₅₀ of 1.7 μM. It disrupts the MIF-aryl hydrocarbon receptor interacting protein (AIF) interaction, impedes MIF nuclear translocation, and mitigates N-methyl-N'-nitro-N-nitrosoguanidine (MNNG)-induced cell death. MKA031 is applicable in research on chronic hepatitis C virus infection [1].
Targets(IC ₅₀)	Others,MIF
In vitro	MKA031 (compound 6y) at a volume of 1-100 μl for 3 hours inhibits cell death induced by MNNG [1]. At a concentration of 100 μl for the same duration, it protects genomic DNA by preventing the recruitment of MIF to AIF [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4786 mL	12.3928 mL	24.7856 mL
5 mM	0.4957 mL	2.4786 mL	4.9571 mL
10 mM	0.2479 mL	1.2393 mL	2.4786 mL
50 mM	0.0496 mL	0.2479 mL	0.4957 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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