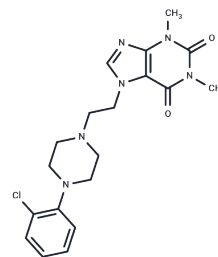


## KMUP-1

## Chemical Properties

CAS No. :	81996-46-5
Formula:	C <sub>19</sub> H <sub>23</sub> ClN <sub>6</sub> O <sub>2</sub>
Molecular Weight:	402.878
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	KMUP-1 is a xanthine derivative known for its vasodilatory properties. It functions as a phosphodiesterase (PDE) inhibitor and an activator of soluble guanylate cyclase (sGC), engaging the NO/sGC/cyclic guanosine monophosphate pathway. Additionally, KMUP-1 can open K <sup>+</sup> channels and has the potential to alleviate ischemia-induced cardiac myocyte apoptosis (apoptosis). This compound is useful in cardiovascular and anti-inflammatory research.
Targets(IC50)	Apoptosis, Guanylate cyclase, PDE, Potassium Channel

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4821 mL	12.4106 mL	24.8213 mL
5 mM	0.4964 mL	2.4821 mL	4.9643 mL
10 mM	0.2482 mL	1.2411 mL	2.4821 mL
50 mM	0.0496 mL	0.2482 mL	0.4964 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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