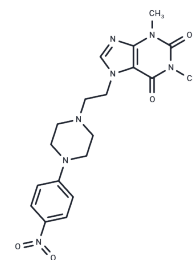


KMUP-3

Chemical Properties

CAS No. :	421556-16-3
Formula:	C ₁₉ H ₂₃ N ₇ O ₄
Molecular Weight:	413.43
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-3 is an enhancer of cGMP activity, and acts as an aortic smooth muscle relaxant.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4188 mL	12.0939 mL	24.1879 mL
5 mM	0.4838 mL	2.4188 mL	4.8376 mL
10 mM	0.2419 mL	1.2094 mL	2.4188 mL
50 mM	0.0484 mL	0.2419 mL	0.4838 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.

Reference

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Winardi W, Wang CJ, Lin CL, Wu SC, Tsai HP, Kuo YH, Lee MY, Chen IJ, Kwan AL. Attenuation of cerebral vasospasm following experimental subarachnoid hemorrhage by the bronchodilator KMUP-3. *Acta Neurochir Suppl.* 2013; 115:239-46. doi: 10.1007/978-3-7091-1192-5_43. PubMed PMID: 22890675.

Liu CP, Yeh JL, Wu BN, Chai CY, Chen IJ, Lai WT. KMUP-3 attenuates ventricular remodelling after myocardial infarction through eNOS enhancement and restoration of MMP-9/TIMP-1 balance. *Br J Pharmacol.* 2011 Jan;162(1): 126-35. doi: 10.1111/j.1476-5381.2010.01024.x. PubMed PMID: 20840538; PubMed Central PMCID: PMC3012411.

Wu BN, Chen CW, Liou SF, Yeh JL, Chung HH, Chen IJ. Inhibition of proinflammatory tumor necrosis factor- α -induced inducible nitric-oxide synthase by xanthine-based 7-[2-[4-(2-chlorobenzene)piperazinyl]ethyl]-1,3-dimethylxanthine (KMUP-1) and 7-[2-[4-(4-nitrobenzene)piperazinyl]ethyl]-1, 3-dimethylxanthine (KMUP-3) in rat trachea: The involvement of soluble guanylate cyclase and protein kinase G. *Mol Pharmacol.* 2006 Sep;70(3):977-85. Epub 2006 Jun 5. PubMed PMID: 16754782.

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