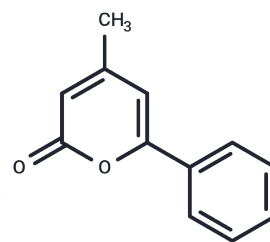


4-methyl-6-phenyl-2H-pyranone

Chemical Properties

CAS No. :	4467-30-5
Formula:	C ₁₂ H ₁₀ O ₂
Molecular Weight:	186.21
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	4-methyl-6-phenyl-2H-pyranone is derived from <i>Scutellaria baicalensis</i> Georgi and improves mitochondrial functionality to protect astrocytes against hydrogen peroxide-induced toxicity.
Targets(IC50)	Reactive Oxygen Species, Mitochondrial Metabolism, ROS

Solubility Information

Solubility	DMSO: 50 mg/mL (268.51 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.3703 mL	26.8514 mL	53.7028 mL
5 mM	1.0741 mL	5.3703 mL	10.7406 mL
10 mM	0.537 mL	2.6851 mL	5.3703 mL
50 mM	0.1074 mL	0.537 mL	1.0741 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

Zhang Z, Ju T, Ye J H, et al. CO₂ = CO + O: Redox-Neutral Lactamization and Lactonization of C-H Bonds with CO₂ [J]. *Synlett*, 2017, 28(07):741-750.

Singh S, et al. Discovery of a novel series of N-hydroxypyridone derivatives protecting astrocytes against hydrogen peroxide-induced toxicity via improved mitochondrial functionality. *Bioorg Med Chem*. 2017;25(4):1394-1405.

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