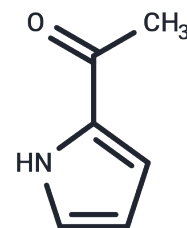


2-Acetylpyrrole

Chemical Properties

CAS No. :	1072-83-9
Formula:	C ₆ H ₇ NO
Molecular Weight:	109.13
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	2-Acetylpyrrole is a nitrogen-containing heterocyclic compound widely found in the volatile oils of foods such as coffee, tea, and dairy products, and is one of the products of the Maillard browning reaction.. 2-Acetylpyrrole is also used as an intermediate in the synthesis of pharmaceuticals, fragrances, and materials.
Targets(IC50)	Others
In vitro	2-Acetylpyrrole reacts with nitrites to form 1-nitro-2-acetylpyrrole (NAP) and 1,3,5-trinitro-2-acetylpyrrole (TNAP), which exhibit moderate mutagenicity and strong cytotoxicity.[1]

Solubility Information

Solubility	DMSO: 80 mg/mL (733.07 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	9.1634 mL	45.8169 mL	91.6338 mL
5 mM	1.8327 mL	9.1634 mL	18.3268 mL
10 mM	0.9163 mL	4.5817 mL	9.1634 mL
50 mM	0.1833 mL	0.9163 mL	1.8327 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

C J Wang, et al. Mutagenicity and cytotoxicity of nitropyrrole compounds derived from the reaction of 2-acetyl pyrrole with nitrite. Food Chem Toxicol. 1994 Sep;32(9):839-44.

Ron G. Buttery, et al. Cooked rice aroma and 2-acetyl-1-pyrroline. J. Agric. FoodChem. 1983, 31, 4, 823-826

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