Tetrahydro-4H-pyran-4-one

Cat. No.: HY-76487

CAS No.: 29943-42-8

Molecular Formula: $C_5H_8O_2$

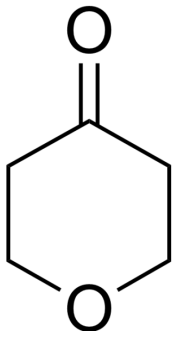
Molecular Weight: 100.12

Target: Biochemical Assay Reagents

Pathway: Others

Storage:

Pure form	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (998.80 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	9.9880 mL	49.9401 mL	99.8801 mL
	5 mM	1.9976 mL	9.9880 mL	19.9760 mL
	10 mM	0.9988 mL	4.9940 mL	9.9880 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (24.97 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (24.97 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (24.97 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Dihydro-2H-pyran-4(3H)-one is a biochemical reagent that can be used as a biological material or organic compound for life science related research.

In Vitro

It is employed in the preparation of 4-methoxytetrahydropyran-4-yl protecting group, synthesis of symmetric tetra substituted methanes. The methyl enol ether is a useful protecting agent for alcohols, eg in nucleotide synthesis, with the advantage over 3,4-Dihydro-2H-pyran. It is also employed in a study of the enantioselective alpha-aminoxylation of ketones with nitrosobenzene and L-proline in an ionic liquid. It undergoes condensation reactions in the preparation of dipeptides

	and spiroimidazolones. It is also employ ed in wittig reactions For the synthesis of Penicillins and in a ring of vitamin D3 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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