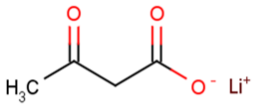
Data Sheet (Cat.No.T4854)

TargetMol
A DRUG SCREENING EXPERT

Lithium acetoacetate

Chemical Properties



CAS No.:	3483-11-2
Formula:	C4H5LiO3
Molecular Weight:	108.02
Appearance:	Solid
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Acetoacetic acid (AcAc) is a weak organic acid that can be produced in the human liver under certain conditions of poor metabolism leading to excessive fatty acid breakdown (diabetes mellitus leading to diabetic ketoacidosis). It is then partially converted into acetone by decarboxylation and excreted either in urine or through respiration.
Targets(IC_{50})	Others: None

Solubility Information

Solubility	DMSO: 10 mM (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	9.258 mL	46.288 mL	92.575 mL
5 mM	1.852 mL	9.258 mL	18.515 mL
10 mM	0.926 mL	4.629 mL	9.258 mL
50 mM	0.185 mL	0.926 mL	1.852 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Yeh YY, et al. Preferential utilization of ketone bodies in the brain and lung of newborn rats.Fed Proc. 1985 Apr;44(7):2352-8.

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