

HM-cytosine

Chemical Properties

CAS No. :	1123-95-1
Formula:	C5H7N3O2
Molecular Weight:	141.128
Storage:	Store at low temperature,Keep away from direct sunlight,Store under nitrogen 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	HM-cytosine (5hmC) is a naturally occurring component of mammalian genomic DNA and is thought to be the sixth base of DNA [1]. HM-cytosine is an intermediate metabolite for demethylation of active DNA [2]. HM-cytosine is an ep
Targets(IC50)	Others,Endogenous Metabolite

Solubility Information

Solubility	DMSO: 5.00 mg/mL (35.43 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	7.0857 mL	35.4283 mL	70.8567 mL
5 mM	1.4171 mL	7.0857 mL	14.1713 mL
10 mM	0.7086 mL	3.5428 mL	7.0857 mL
50 mM	0.1417 mL	0.7086 mL	1.4171 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

- Ke Fang, et al. [Advances on the profiling of 5-hydroxymethylcytosine]. Yi Chuan. 2016 Mar;38(3):206-16.
- Jesús Rafael Rodríguez-Aguilera, et al. Genome-wide 5-hydroxymethylcytosine (5hmC) emerges at early stage of in vitro differentiation of a putative hepatocyte progenitor. Sci Rep. 2020 May 8;10(1):7822.
- Wenshuai Li, et al. 5-Hydroxymethylcytosine signatures in circulating cell-free DNA as diagnostic biomarkers for human cancers. Cell Res. 2017 Oct;27(10):1243-1257.

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