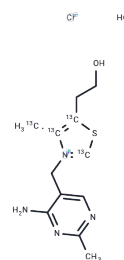


Thiamine-13C4 hydrochloride

Chemical Properties

CAS No. :	1257525-77-1
Formula:	13C2C10H18Cl2N4OS
Molecular Weight:	341.24
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	Thiamine-13C4 hydrochloride is the 13C labeled compound of Thiamine Hydrochloride. Thiamine Hydrochloride (T0894) has a CAS number of 67-03-8. Thiamine Hydrochloride (T0894) is the hydrochloride salt form of thiamine, a vitamin essential for aerobic metabolism, cell growth, transmission of nerve impulses and acetylcholine synthesis. Upon hydrolysis, thiamine hydrochloride is phosphorylated by thiamine diphosphokinase to form active thiamine pyrophosphate (TPP), also known as cocarboxylase. TPP is a coenzyme for many enzymatic activities involving fatty acid, amino acid and carbohydrate metabolism.
Targets(IC50)	Apoptosis,Endogenous Metabolite,HBV

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9305 mL	14.6524 mL	29.3049 mL
5 mM	0.5861 mL	2.9305 mL	5.861 mL
10 mM	0.293 mL	1.4652 mL	2.9305 mL
50 mM	0.0586 mL	0.293 mL	0.5861 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.

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