

Paraxanthine-D6

Chemical Properties

CAS No. :	117490-41-2
Formula:	C7H8N4O2
Molecular Weight:	186.201
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	Paraxanthine-D6 is intended for use as an internal standard for the quantification of paraxanthine by GC- or LC-MS. Paraxanthine (T4973) is an active metabolite of caffeine. It is formed via N3-demethylation of caffeine by the cytochrome P450 (CYP) isoform CYP1A2. Paraxanthine (T4973) is an adenosine A1 and A2 receptor antagonist. In vivo, paraxanthine increases striatal cGMP and extracellular striatal dopamine levels and locomotor activity, as well as inhibits motor depression induced by the adenosine A1 agonist CPA or the adenosine A2 receptor agonist CGS 21680 in rats not habituated to caffeine. It also promotes wakefulness and increases locomotor activity and core temperature in narcoleptic transgenic mice without increasing behavioral anxiety.
Targets(IC50)	Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.3706 mL	26.8528 mL	53.7057 mL
5 mM	1.0741 mL	5.3706 mL	10.7411 mL
10 mM	0.5371 mL	2.6853 mL	5.3706 mL
50 mM	0.1074 mL	0.5371 mL	1.0741 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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