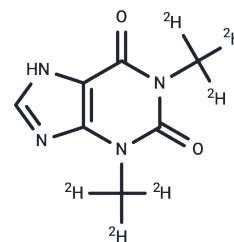


## Theophylline-D6

## Chemical Properties

CAS No. :	117490-39-8
Formula:	C7H2D6N4O2
Molecular Weight:	186.2
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	Theophylline-D6 is intended for use as an internal standard for the quantification of theophylline by GC- or LC-MS. Theophylline (T1083) is an inhibitor of phosphodiesterase. It is also an adenosine A1 and A2 receptor antagonist. Theophylline (T1083) induces relaxation of isolated cat bronchial smooth muscle segments precontracted with acetylcholine. It inhibits ovalbumin-induced increases in bronchoalveolar lavage fluid (BALF) eosinophil infiltration in an ovalbumin-sensitized mouse model of allergic asthma. Formulations containing theophylline have been used in the treatment of asthma and chronic obstructive pulmonary disease (COPD).
Targets(IC50)	Endogenous Metabolite, Adenosine Receptor, Autophagy, PDE

## 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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