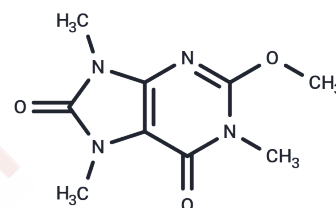


## Methyliberine

## Chemical Properties

CAS No. :	51168-26-4
Formula:	C <sub>9</sub> H <sub>12</sub> N <sub>4</sub> O <sub>3</sub>
Molecular Weight:	224.22
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	Methyliberine is a natural purine alkaloid structurally similar to caffeine and theophylline, primarily derived from plants of the genus Coffea and certain species of the Theaceae family. By modulating adenosine receptor-related signaling, it influences central nervous system stimulation, attention, and energy metabolism, and is used in research related to sports nutrition and functional foods.
Targets(IC50)	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.4599 mL	22.2995 mL	44.5991 mL
5 mM	0.892 mL	4.4599 mL	8.9198 mL
10 mM	0.446 mL	2.230 mL	4.4599 mL
50 mM	0.0892 mL	0.446 mL	0.892 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

Timothy S Murbach, et al. A Toxicological Evaluation of Methyliberine (Dynamine®). J Toxicol. 2019 Oct 27:2019: 4981420.

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