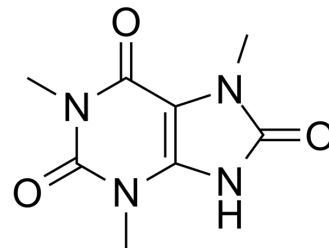


1,3,7-Trimethyluric acid

Cat. No.:	HY-113327		
CAS No.:	5415-44-1		
Molecular Formula:	C ₈ H ₁₀ N ₄ O ₃		
Molecular Weight:	210.19		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	1,3,7-Trimethyluric acid is the metabolite of caffeine. The metabolic ratio 1,3,7-Trimethyluric acid to caffeine can be evaluated as a biomarker to describe variability in CYP3A activity in a cohort ^[1] .
IC ₅₀ & Target	Human Endogenous Metabolite

REFERENCES

[1]. Y Benčekroun, et al. Isotopic effects on retention times of caffeine and its metabolites 1,3,7-trimethyluric acid, theophylline, theobromine and paraxanthine. J Chromatogr B Biomed Sci Appl. 1997 Jan 24;688(2):245-54.

[2]. Madelé van Dyk, et al. Identification of the caffeine to trimethyluric acid ratio as a dietary biomarker to characterise variability in cytochrome P450 3A activity. Eur J Clin Pharmacol. 2019 Sep;75(9):1211-1218.

Caution: Product has not been fully validated for medical applications. For research use only.

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