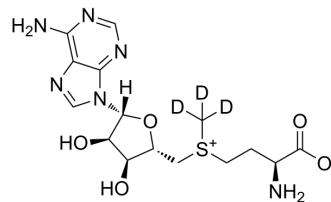


S-Adenosyl-L-methionine-d₃

Cat. No.:	HY-B0617S
CAS No.:	68684-40-2
Molecular Formula:	C ₁₅ H ₁₉ D ₃ N ₆ O ₃ S
Molecular Weight:	401.46
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 50 mg/mL (124.55 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.4909 mL	12.4545 mL	24.9091 mL
	5 mM	0.4982 mL	2.4909 mL	4.9818 mL
	10 mM	0.2491 mL	1.2455 mL	2.4909 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

S-Adenosyl-L-methionine-d₃ is the deuterated product of S-Adenosyl-L-methionine. S-Adenosyl-L-methionine is endogenously produced from methionine and ATP through the action of methionine adenosyltransferase and is an important orally active methyl donor^{[1][2]}.

REFERENCES

- [1]. G M Bressa. S-adenosyl-l-methionine (SAME) as antidepressant: meta-analysis of clinical studies. *Acta Neurol Scand Suppl.* 1994;154:7-14.
- [2]. Wadie I Najm, et al. S-adenosyl methionine (SAME) versus celecoxib for the treatment of osteoarthritis symptoms: a double-blind cross-over trial. [ISRCTN36233495]. *BMC Musculoskelet Disord.* 2004 Feb 26;5:6.

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

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