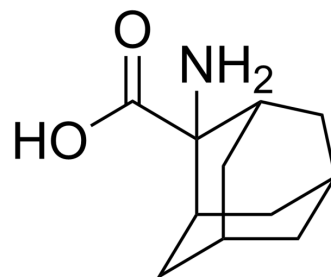


Adamantanine

Cat. No.:	HY-121123
CAS No.:	42381-05-5
Molecular Formula:	C ₁₁ H ₁₇ NO ₂
Molecular Weight:	195.26
Target:	Aminopeptidase
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



BIOLOGICAL ACTIVITY

Description	Adamantanine (2-Aminoadamantane-2-carboxylic acid) inhibits the transport of methionine (K _i is 0.76 mM) and leucine into Ehrlich ascites carcinoma cells. Adamantanine inhibits proliferation of P388 lymphocytic leukemia cells with an IC ₅₀ of >1 mM. Adamantanine inhibits the leucine aminopeptidase with an I/S _{0.5} of 10.5 ^[1] .	
In Vivo	Adamantanine (500 mg/kg, i.p., single dose; 1000 mg/kg, p.o., single dose) is non-toxic in Sprague Dawley rats model as a finely pulverized suspension ^[2] .	
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Sprague-Dawley rats model ^[2]
	Dosage:	500-1000 mg/kg
	Administration:	i.p., single dose; p.o., single dose
	Result:	Exhibited no toxicity.

REFERENCES

[1]. Nagasawa HT, et al., Potential latentiation forms of biologically active compounds based on action of leucine aminopeptidase. Dipeptide derivatives of the tricycloaliphatic alpha-amino acid, adamantanine. J Med Chem. 1975 Aug;18(8):826-30.

[2]. Nagaswa HT, et al., 2-Aminoadamantane-2-carboxylic acid, a rigid, achiral, tricyclic alpha-amino acid with transport inhibitory properties. J Med Chem. 1973 Jul;16(7):823-6.

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

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