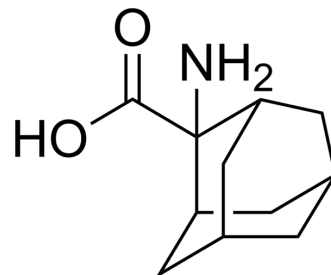


## Adamantanine

Cat. No.:	HY-121123
CAS No.:	42381-05-5
Molecular Formula:	C <sub>11</sub> H <sub>17</sub> NO <sub>2</sub>
Molecular Weight:	195.26
Target:	Aminopeptidase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Adamantanine (2-Amino-2-carboxyadamantane) 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 <sup>[1]</sup> .								
<b>In Vivo</b>	<p>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<sup>[2]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Sprague-Dawley rats model<sup>[2]</sup></td> </tr> <tr> <td>Dosage:</td> <td>500-1000 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>i.p., single dose; p.o., single dose</td> </tr> <tr> <td>Result:</td> <td>Exhibited no toxicity.</td> </tr> </table>	Animal Model:	Sprague-Dawley rats model <sup>[2]</sup>	Dosage:	500-1000 mg/kg	Administration:	i.p., single dose; p.o., single dose	Result:	Exhibited no toxicity.
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### 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-Amino-2-carboxyadamantane, 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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