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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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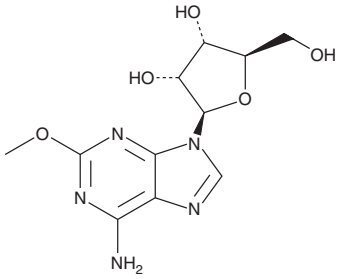
PRODUCT INFORMATION

Spongosine

Item No. 41832

CAS Registry No.:	24723-77-1
Formal Name:	2-methoxy-adenosine
Synonyms:	2-Methoxyadenosine, NSC 36899
MF:	$C_{11}H_{15}N_5O_5$
FW:	297.3
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years
Item Origin:	Synthetic



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Spongosine is supplied as a solid. A stock solution may be made by dissolving the spongosine in the solvent of choice, which should be purged with an inert gas. Spongosine slightly soluble (0.1-1 mg/ml) in DMSO.

Description

Spongosine is a nucleoside that has been found in *Tethyidae* and has diverse biological activities.[1-4] It is an antagonist of adenosine A_1, A_{2A}, and A_3 receptors (K_is = 155, 970, and 156 nM, respectively, in CHO cells expressing the human receptors).[2] Spongosine (100 µM) inhibits collagen-induced platelet aggregation in isolated human whole blood and platelet-rich plasma.[3] It decreases contractile force and frequency in spontaneously contracting isolated guinea pig atrial muscles (EC_{50}s = 32.7 and 127.7 µM, respectively).[4]

References

1. Searle, P.A. and Molinski, T.F. Isolation of spongosine and 2'deoxyspongosine from a Western Austalian sponge of the order Hadromerida (tethyidae). *J. Nat. Prod.* **57(10),** 1452-1454 (1994).
2. Gao, Z.-G., Mamedova, L.K., Chen, P., *et al.* 2-Substituted adenosine derivatives: Affinity and efficacy at four subtypes of human adenosine receptors. *Biochem. Pharmacol.* **68(10),** 1985-1993 (2004).
3. Ojha, L.M., Gulati, D., Seth, N., *et al.* A simple method for synthesis of spongosine, azaspongosine, and their antiplatelet effects. *Nucleos. Nucleot.* **14(9-10)**, 1889-1900 (1995).
4. Fuhrman, F.A. and Fuhrman, G.J. Effects of some naturally-occurring purine ribosides on purinergic receptors in cardiac and smooth muscle. *Comp. Biochem. Physiol. C* **72(2)**, 203-210 (1982).

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