

## Product Information

### 5'-Methylthioadenosine

**Cat. No.:** X24-03-LY054

**Size:** 5 mg; 10 mg; 25 mg; 100 mg

**MDL:** MFCD00010533

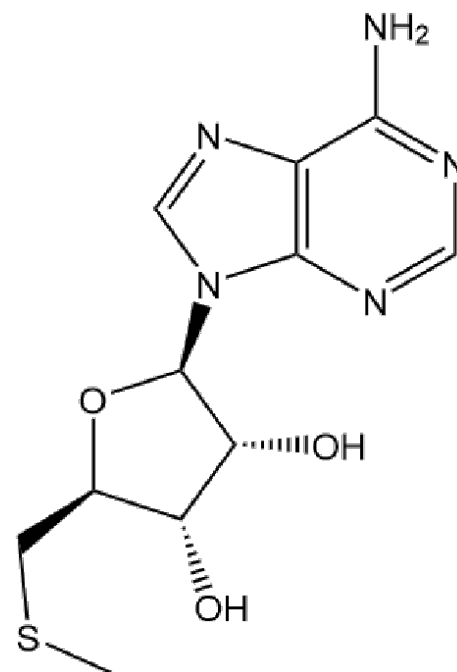
**CAS Number:** 2457-80-9

**PubChem CID:** 439176

**Synonym:** 2457-80-9; 5'-(Methylthio)-5'-deoxyadenosine;

5'-Deoxy-5'-(methylthio)adenosine; 5'-S-Methyl-5'-thioadenosine

**This product is for research use only and is not intended for diagnostic use.**



#### Product Information

<b>Description</b>	5'-Methylthioadenosine is a modified nucleoside widely found in organisms, consisting of methylthiofuran and adenine.
<b>Molecular Weight</b>	297.33
<b>Molecular Formula</b>	C <sub>11</sub> H <sub>15</sub> N <sub>5</sub> O <sub>3</sub> S
<b>IUPAC Name</b>	(2R, 3R, 4S, 5S)-2-(6-Aminopurin-9-yl)-5-(methylsulfanylmethyl)oxolane-3, 4-diol
<b>InChI</b>	InChI=1S/C11H15N5O3S/c1-20-2-5-7(17)8(18)11(19-5)16-4-15-6-9(12)13-3-14-10(6)16/h3-5, 7-8, 11, 17-18H, 2H2, 1H3, (H2, 12, 13, 14)/t5-, 7-, 8-, 11-/m1/s1
<b>InChI Key</b>	WUUGFSXJNOTRMR-IOSLPCCCSA-N
<b>Canonical SMILES</b>	CSCC1C(C(C(O1)N2C=NC3=C(N=CN=C32)N)O)O
<b>Isomeric SMILES</b>	CSC[C@@H]1[C@H]([C@H]([C@@H]([C@@H](O1)N2C=NC3=C(N=CN=C32)N)O)O)
<b>Form</b>	White to off-white solid
<b>Purity</b>	≥98%
<b>Applications</b>	5'-Methylthioadenosine is mainly used in the synthesis of DNA and RNA and is involved in the process of protein synthesis in cells.
<b>Storage</b>	Store at -20°C.



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## Safety Information

<b>Personal Protective Equipment</b>	Gloves, eyeshields, N95 mask
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<b>Hazard Statements</b>	H302-H315-H319-H335
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