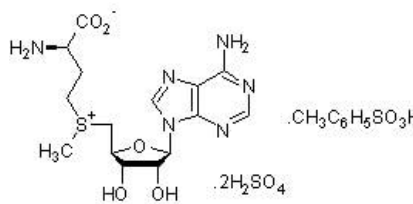


Product datasheet

SAM e (S-(5-Adenosyl)-L-methionine disulfate tosylate), Methyl donor ab142221

1 Image

Overview

<b>Product name</b>	SAM e (S-(5-Adenosyl)-L-methionine disulfate tosylate), Methyl donor
<b>Description</b>	Methyl donor and cofactor for enzyme-catalyzed methylations
<b>Biological description</b>	Methyl donor and cofactor for enzyme-catalyzed methylations, such as catechol O-methyltransferase (COMT) and DNA methyltransferases (DNMT).
<b>Purity</b>	> 95%
<b>CAS Number</b>	97540-22-2
<b>Chemical structure</b>	

Properties

<b>Chemical name</b>	[(3S)-3-Amino-3-carboxypropyl]-[[[(2S,3S,4R,5R)-5-(6-aminopurin-9-yl)-3,4-dihydroxyoxolan-2-yl]methyl]methylsulfanium disulfate tosylate
<b>Molecular weight</b>	766.78
<b>Molecular formula</b>	C <sub>15</sub> H <sub>22</sub> N <sub>6</sub> O <sub>5</sub> S·C <sub>7</sub> H <sub>8</sub> O <sub>3</sub> S·2H <sub>2</sub> SO <sub>4</sub>
<b>PubChem identifier</b>	163657
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
<b>Solubility overview</b>	Soluble in water to 100 mM
<b>Handling</b>	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.  Toxic, refer to SDS for further information.

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions \(FAQ\) page](#) for more details.

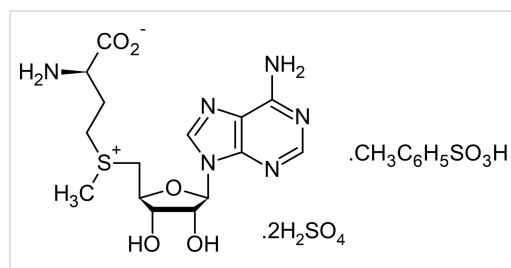
## SMILES

```
CC1=CC=C(C=C1)S(=O)(=O)[O-].C[S+]  
(CCC(C(=O)O)N)CC1C(C(C(O1)N2C=NC3=C2N=CN=C3N)O)O.OS(=O)(=O)[O-].[O-]S(=O)(=O)  
[O-]
```

## Source

Synthetic

## Images



2D chemical structure image of ab142221, SAM e (S-(5-Adenosyl)-L-methionine disulfate tosylate), Methyl donor

Chemical Structure - SAM e (S-(5-Adenosyl)-L-methionine disulfate tosylate), Methyl donor (ab142221)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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