BioVision

STRUCTURE:

S-Adenosyl-L-methionine disulfate tosylate

ALTERNATE NAME: AdoMet SAM disulfate *p*-toluenesulfonate; SAMe

CATALOG #: 2077-50, 100, 500

AMOUNT: 50 mg, 100 mg, 500 mg

HO OH OH

MOLECULAR FORMULA: $C_{15}H_{22}N_6O_5S.C_7H_{12}O_{11}S_2$

MOLECULAR WEIGHT: 766.80

CAS NUMBER: 97540-22-2

APPEARANCE: White to off-white solid

SOLUBILITY: H₂O (~100 mg/ml)

PURITY: ≥95% by HPLC

STORAGE: Store at -20°C. Protect from air and moisture.

DESCRIPTION: A methyl donor and a cofactor for enzyme-catalyzed

methylations, including catechol O-methyltransferase (COMT) and DNA methyltransferases (DNMT). Although present in all cells, it is concentrated in liver where 85% of all methylation reactions occur. SAM is anti-apoptotic in normal hepatocytes and normal colon epithelial cells but pro-apoptotic in liver human hepatocellular carcinoma (HCC), HepG2 cells and

colon cancer cells.

HANDLING: Do not take internally. Wear gloves and mask when handling

the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

- AMI-1 (Cat. No. 1943-5, 25)
- 5-Aza-2'-deoxycytidine (Cat. No. 1754-10, 50)
- Bromodomain Inhibitor, (+)-JQ1 (Cat. No. 2070-1, 5)
- 3-Deazaneplanocin (Cat. No. 2060-250, 1000)
- BIX01294 (Cat. No. 1678-5, 25)
- RG108 (Cat. No. 1679-10, 30)
- UNC0638 (Cat. No. 1933)

FOR RESEARCH USE ONLY! Not to be used in humans.