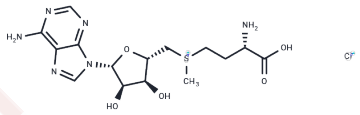
Data Sheet (Cat.No.TN6669)

TargetMol

S-(5'-Adenosyl)-L-methionine chloride

Chemical Properties



CAS No. : 24346-00-7

Formula: C15H23ClN6O5S

Molecular Weight: 434.9

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	S-(5'-Adenosyl)-L-methionine chloride is a natural product. The catalog number is TN6669 and the CAS number is 24346-00-7. S-(5'-Adenosyl)-L-methionine chloride can be used as a reference standard.
In vitro	METHODS AND RESULTS:Norepinephrine (NE) is detected amperometrically using the enzyme Phenylethanolamine N-methyl transferase and cofactor S-(5'-Adenosyl)-L-methionine chloride dihydrochloride with disposable screen printed mesoporous carbon electrodes. The role of internal surface area and pore size of the mesoporous carbon is systematically examined using soft-templated, mesoporous silica-carbon powders with highly microporous walls obtained from etching of the silica to produce powders with surface areas ranging from 671-2339 m(2)g(-1). As the surface area increases, the sensitivity of the biosensor at very low NE concentrations (0-500 pg mL(-1)) in phosphate buffered saline (PBS) increases just as the current signal increases with respect to the NE concentration of 81-1581 μA mL ng(-1) cm(-2) for the mesoporous carbons. CONCLUSIONS: The best performing electrode provides similar sensitivity in whole rabbit blood in comparison to PBS despite no membrane layer to filter the non-desired reactants; the small (<5 nm) pore size and large internal surface area acts to minimize non-specific events that decrease sensitivity.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2994 mL	11.4969 mL	22.9938 mL
5 mM	0.4599 mL	2.2994 mL	4.5988 mL
10 mM	0.2299 mL	1.1497 mL	2.2994 mL
50 mM	0.046 mL	0.2299 mL	0.4599 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Amperometric sensing of norepinephrine at picomolar concentrations using screen printed, high surface area mesoporous carbon. Anal Chim Acta. 2013 Jul 25;788:32-8.

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