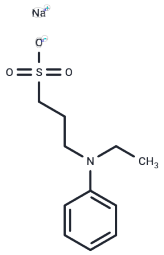
Data Sheet (Cat.No.T18916)

TargetMol

ALPS

Chemical Properties



CAS No. : 82611-85-6

Formula: C11H16NNaO3S

Molecular Weight: 265.3

Storage: Keep away from direct sunlight
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	ALPS (N-Ethyl-N-sulfopropylaniline sodium salt) (N-Ethyl-N-sulfopropylaniline sodium salt) is a bio-chemical reagents/chromogenic reagent.
Targets(IC50)	Others
Cell Research	Instructions I. Solution preparation 1. Stock solution: Dissolve ALPS in deionized water or an appropriate solvent to prepare a stock solution with a concentration of 10-50 mM. The specific concentration can be adjusted according to the required sensitivity and experimental conditions. 2. Working solution: Dilute the stock solution to the required concentration according to experimental needs, usually 0.1-1 mM. II. Operation steps 1. Enzyme activity determination: (1) Add ALPS to the reaction system containing enzyme and substrate. ALPS reacts with the enzyme or the product of the enzyme reaction, resulting in a color change. The color intensity is proportional to the enzyme activity or analyte concentration. (2) Use a spectrophotometer or microplate reader to measure the absorbance at an appropriate wavelength (usually in the visible light range). 2. Protein quantification: (1) ALPS can be used to quantify protein in solution by reacting with protein to form a colored complex, and the color intensity is proportional to the protein concentration. (2) Follow standard methods similar to other colorimetric quantitative analysis methods (such as Bradford or BCA). 3. Calibration and Control: (1) Control: Set up a blank control or a control without adding reagents to ensure the specificity of the reaction and eliminate interference from other components in the sample. (2) Standard curve: Use samples of known concentrations of analytes (such as enzymes or proteins) to establish a standard curve to relate color intensity to analyte concentration. Precautions: (1) Stability: ALPS should be stored in a cool, dry place and away from light to prevent degradation.

Cell Research	(2) pH sensitivity: The activity of ALPS may be affected by the pH of the solution, so the buffer conditions need to be optimized to suit the specific experiment. (3) Safety: Be careful when using ALPS to avoid contact with skin and eyes. Wear appropriate protective equipment such as gloves and safety glasses when handling. The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.

Solubility Information

Solubility	DMSO: 60 mg/mL (226.16 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7693 mL	18.8466 mL	37.6932 mL
5 mM	0.7539 mL	3.7693 mL	7.5386 mL
10 mM	0.3769 mL	1.8847 mL	3.7693 mL
50 mM	0.0754 mL	0.3769 mL	0.7539 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.