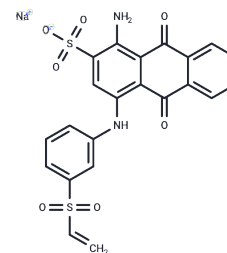


Uniblue A sodium

Chemical Properties

CAS No. :	14541-90-3
Formula:	C ₂₂ H ₁₅ N ₂ NaO ₇ S ₂
Molecular Weight:	506.48
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	Uniblue A sodium serves as a reactive protein stain for covalent pre-gel staining (Ex=594 nM) [1].
Targets(IC50)	Others
In vitro	<p>Uniblue A: Prepare the derivatization buffer with 100 mM NaHCO₃, 10% SDS, pH 8-9. Add 10 µL of 200 mM Uniblue A solution (dissolved in derivatization buffer) to 90 µL protein solution. Heat samples at 100°C for 1 minute for staining. Add 100 µL of reducing solution (10% glycerol, 20 mM dithiothreitol [DTT], in 200 mM Tris buffer, pH 6.8). Excess Uniblue A reacts with Tris, forming a blue compound as a running front indicator in electrophoresis. Heat the sample another minute at 100°C for efficient reduction, then cool to room temperature. Add 20 µL of 550 mM iodoacetamide (IAA) alkylation solution and incubate for 5 minutes. Subject samples to SDS-PAGE. Note: Dry protein samples or samples in compatible buffers (free of amines) can be diluted directly with the derivatization buffer solution to 5 mg/mL. In other cases, trichloroacetic acid (TCA) /acetone precipitation or buffer exchange by ultrafiltration is recommended. As a positive control, use bovine serum albumin (BSA) in derivatization buffer at 10 mg/mL.</p> <p>The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.</p>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9744 mL	9.8721 mL	19.7441 mL
5 mM	0.3949 mL	1.9744 mL	3.9488 mL
10 mM	0.1974 mL	0.9872 mL	1.9744 mL
50 mM	0.0395 mL	0.1974 mL	0.3949 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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