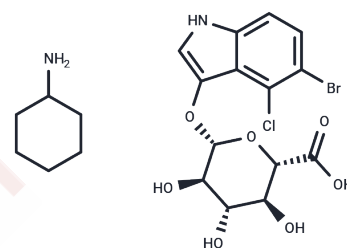


X-Gluc cyclohexanamine

Chemical Properties

CAS No. :	114162-64-0
Formula:	C ₂₀ H ₂₆ BrClN ₂ O ₇
Molecular Weight:	521.79
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	X-Gluc cyclohexanamine is a dye used to detect β -glucuronidase (GUS) activity and serves as a marker for gene expression, enabling the detection of target gene expression.
Targets(IC50)	Others
In vitro	<p>a. Dissolve 20 mg X-Gluc cyclohexanamine in 1 mL dimethylformamide (DMF) to prepare X-Gluc stock solution;</p> <p>b. Add the prepared X-Gluc solution to the plate culture medium, and set the final concentration to 50 μg/mL without sterilization;</p> <p>c. Allow the plate to air dry naturally before inoculating microorganisms;</p> <p>d. Incubate the plate at 35°C and observe the results 16-24 hours after inoculation.</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	1.9165 mL	9.5824 mL	19.1648 mL
5 mM	0.3833 mL	1.9165 mL	3.833 mL
10 mM	0.1916 mL	0.9582 mL	1.9165 mL
50 mM	0.0383 mL	0.1916 mL	0.3833 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

Frampton EW, et al. Evaluation of the β -Glucuronidase Substrate 5-Bromo-4-Chloro-3-Indolyl- β -D-Glucuronide (X-GLUC) in a 24-Hour Direct Plating Method for Escherichia coli. J Food Prot. 1988 May;51(5):402-404.

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