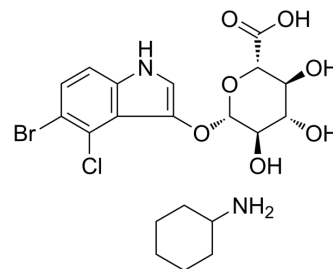


X-Gluc cyclohexanamine

Cat. No.:	HY-15935B
CAS No.:	114162-64-0
Molecular Formula:	C ₂₀ H ₂₆ BrClN ₂ O ₇
Molecular Weight:	521.79
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description	X-Gluc cyclohexanamine is a dye reagent for the detection of β -glucuronidase (GUS), an enzyme produced by <i>E. coli</i> . X-Gluc cyclohexanamine can be used to detect <i>E. coli</i> contamination in food, water and the urinary tract (GUS as a specific detection indicator). X-Gluc cyclohexanamine is also widely used in molecular biology experiments to label and detect the expression of target genes (reacts with the GUS gene, appears blue) ^[1] .
In Vitro	<p>Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).</p> <ol style="list-style-type: none"> 1. Dissolve 20 mg X-Gluc cyclohexanamine in 1mL dimethylformamide (DMF) to prepare X-Gluc master mix. 2. Add the prepared X-Gluc solution to agar medium plates at a final concentration of 50 μg/mL without sterilization. 3. Allow the plates to air dry and be used to inoculate the organisms. 4. Incubate the plates at 35°C and observe 16-24 h after inoculation. <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Elon W Frampton, 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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