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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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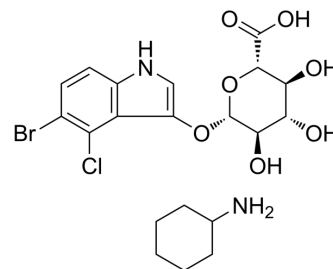
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X-Gluc cyclohexanamine

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)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (191.65 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		1.9165 mL	9.5824 mL	19.1648 mL
	5 mM		0.3833 mL	1.9165 mL	3.8330 mL
	10 mM		0.1916 mL	0.9582 mL	1.9165 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

X-Gluc cyclohexanamine is a dye reagent for the detection of β -glucuronidase (GUS), an enzyme produced by E. coli. X-Gluc cyclohexanamine can be used to detect E. coli 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

Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).

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 μ g/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.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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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