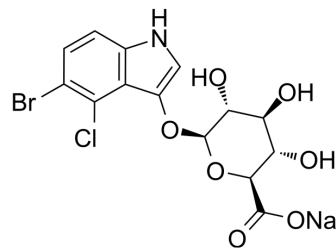


X-Gluc sodium

Cat. No.:	HY-15935C
CAS No.:	129541-41-9
Molecular Formula:	C ₁₄ H ₁₂ BrClNNaO ₇
Molecular Weight:	444.59
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (224.93 mM)
* "≥" means soluble, but saturation unknown.

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.2493 mL	11.2463 mL	22.4926 mL
	5 mM	0.4499 mL	2.2493 mL	4.4985 mL
	10 mM	0.2249 mL	1.1246 mL	2.2493 mL

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

BIOLOGICAL ACTIVITY

Description

X-Gluc sodium is a dye reagent for the detection of β-glucuronidase (GUS), an enzyme produced by E. coli. X-Gluc sodium can be used to detect E. coli contamination in food, water and the urinary tract (GUS as a specific detection indicator). X-Gluc sodium 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 sodium 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.

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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