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Produktinformation

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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X-Gluc Dicyclohexylamine

Cat. No.: HY-15935

CAS No.: 18656-96-7

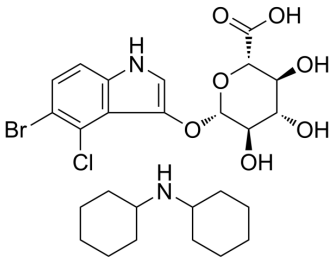
Molecular Formula: $C_{26}H_{36}BrClN_2O_7$

Molecular Weight: 603.93

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 : ≥ 30 mg/mL (49.67 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.6558 mL	8.2791 mL	16.5582 mL
	5 mM	0.3312 mL	1.6558 mL	3.3116 mL
	10 mM	0.1656 mL	0.8279 mL	1.6558 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (4.14 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.14 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.14 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

X-Gluc Dicyclohexylamine is a dye reagent for the detection of β-glucuronidase, an enzyme produced by Escherichia coli. X-Gluc sodium can be used to detect E. coli contamination in food, water and the urinary tract. X-Gluc sodium is also widely used in molecular biology experiments to label and detect the expression of target genes (GUS reporter system)[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 Dicyclohexylamine 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.

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