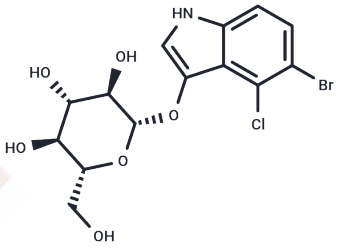
Data Sheet (Cat.No.T85479)

TargetMol

5-Bromo-4-chloro-3-indolyl β-D-glucopyranoside

Chemical Properties



CAS No. : 15548-60-4

Formula: C14H15BrClNO6

Molecular Weight: 408.63

Storage: Store at low temperature,Keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	5-Bromo-4-chloro-3-indolyl β-D-glucopyranoside (X-Glc) is a chromogenic substrate for β-galactosidase, producing a blue product under β-galactosidase catalysis, commonly used for in situ β-galactosidase staining and blue-white screening.
Targets(IC50)	Others
In vitro	5-Bromo-4-chloro-3-indolyl β-D-glucopyranoside is a biochemical reagent used as a biomaterial or organic compound in life sciences research.

Solubility Information

Solubility	DMSO: 80 mg/mL (195.78 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (8.08 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4472 mL	12.236 mL	24.472 mL
5 mM	0.4894 mL	2.4472 mL	4.8944 mL
10 mM	0.2447 mL	1.2236 mL	2.4472 mL
50 mM	0.0489 mL	0.2447 mL	0.4894 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

Ashraf R, et al. Selective and differential enumerations of Lactobacillus delbrueckii subsp. bulgaricus, Streptococcus thermophilus, Lactobacillus acidophilus, Lactobacillus casei and Bifidobacterium spp. in yoghurt--a review. Int J Food Microbiol. 2011 Oct 3;149(3):194-208.

Angelidis AS, et al. Identification of non-Listeria spp. bacterial isolates yielding a β-D-glucosidase-positive phenotype on Agar Listeria according to Ottaviani and Agosti (ALOA). Int J Food Microbiol. 2015 Jan 16;193:114-29.