

Product Data Sheet

Product Name: 5-bromo-3-indolyl- β -D-Galactopyranoside

Cat. No.: GC49877

Chemical Properties

Cas. No. 97753-82-7

SMILES BrC1=CC=C2C(C(O[C@@H]3O[C@@H]([C@@H]([C@@H]([C@H]3O)O)O)CO)=CN2)=C1

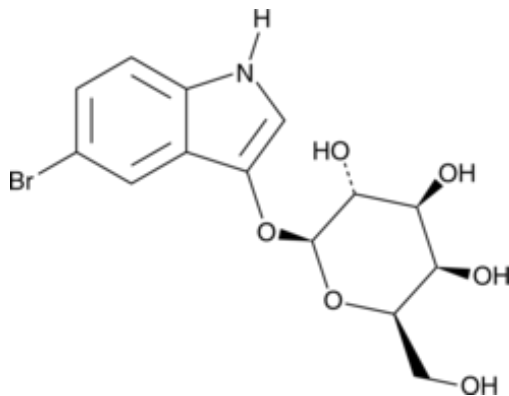
Formula C₁₄H₁₆BrNO₆ M.Wt 374.2

Solubility DMF: 1 mg/ml, DMSO: 2 mg/ml, Ethanol: insol, PBS (pH 7.2): insol Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

5-Bromo-3-indolyl- β -D-galactopyranoside (Bluo-Gal) is a cell-permeable chromogenic substrate for β -galactosidase.¹ Upon enzymatic hydrolysis, it generates an indigo-colored precipitate that can be used to measure β -galactosidase activity. Bluo-Gal has been used to detect the expression of β -galactosidase in muscle from transgenic mice expressing *E. coli lacZ*, the gene that encodes β -galactosidase.

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

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1. Gioglio, L., de Angelis, M.G.C., Boratto, R., et al. An improved method for β -galactosidase activity detection on muscle tissue. A light and electron microscopic study *Ann. Anat.* 184(2)153-157(2002)

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