

Product Data Sheet

Product Name: Thiodigalactoside

Cat. No.: GC45040

Chemical Properties

Cas. No. 51555-87-4

SMILES O[C@@H]1[C@H](O)[C@@H](O)[C@H](S[C@@]2([H])[C@H](O)[C@@H](O)[C@@H](O)[C@@H](CO)O2)O[C@@H]1CO

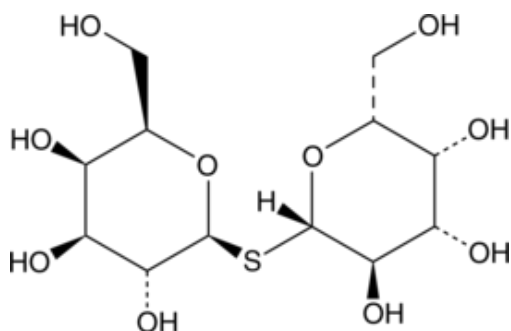
Formula C₁₂H₂₂O₁₀S M.Wt 358.4

Solubility DMF: 1 mg/ml, DMSO: 20 mg/ml, PBS (pH 7.2): 10 mg/ml Storage Store at -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

Galectins are a family of glycan-binding lectins with diverse regulatory roles in physiological processes. They have significant roles in inflammation and cancer. Thiodigalactoside is a diglycan that binds galectins-1, -3, -8, and -9 with K_d values between 24 and 78 μM. It is used to investigate the roles of these galectins in cell signaling and carcinogenesis.

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

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