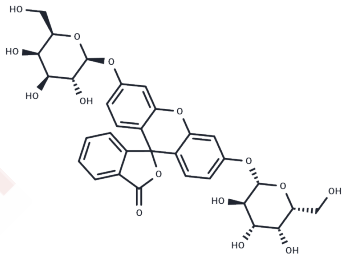
Data Sheet (Cat.No.T18993)

TargetMol

Fluorescein di-beta-D-galactopyranoside

Chemical Properties



CAS No. : 17817-20-8

Formula: C32H32O15

Molecular Weight: 656.59

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

Biological Description

Description	Fluorescein di(β-D-galactopyranoside) is a fluorogenic substrate for β-galactosidase (λem=535 nm, λex=485 nm).
Targets(IC50)	Others
In vitro	Fluorescein di(β-D-galactopyranoside) exhibits time- and dose-dependent increases in fluorescence in Hs68 cells, with fluorescence levels generated by the dual-substrate method significantly lower than those produced by Fluorescein di(β-D-galactopyranoside)[1].
Cell Research	Procedure 1. After the cells have been cultured to the appropriate state, add 2 mM Fluorescein di-beta-D-galactopyranoside to each well after adding an aliquot of the reaction buffer and store the plate at 37°C in the dark for 24 hours without supply of CO2. 2. Observe and capture images using a fluorescence microscope. The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.

Solubility Information

Solubility	DMSO: 5 mg/mL (7.62 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.523 mL	7.6151 mL	15.2302 mL
5 mM	0.3046 mL	1.523 mL	3.046 mL
10 mM	0.1523 mL	0.7615 mL	1.523 mL
50 mM	0.0305 mL	0.1523 mL	0.3046 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

Cheng Z, et al. Impaired degradation of PLCG1 by chaperone-mediated autophagy promotes cellular senescence and intervertebral disc degeneration. Autophagy. 2025 Feb;21(2):352-373.