Product Datasheet

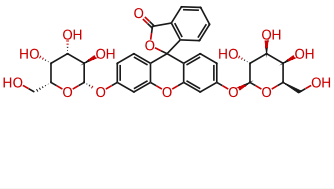
Fluorescein di(β-D-galactopyranoside)

Catalog No. **BP-08943** · CAS **17817-20-8** · Form **free base** · Physical state **solid** · Color **Yellow to orange** · Version **1.0** · Revision **2026-11-16**

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Molecular formula	$C_{32}H_{32}O_{15}$
Molecular weight	**656.5930**

STRUCTURE



DESCRIPTION

Fluorescein di(β-D-galactopyranoside) is a fluorogenic substrate for β-galactosidase (λex=485 nm, λem=535 nm).

BIOLOGICAL ACTIVITY

Guidelines (the following is our recommended protocol; this protocol is provided for guidance only and should be modified according to your specific needs).

Assay of senescence-associated β-galactosidase (SA-βG) activity[1].

The cells (5×103 cells per well) are cultured in a 96- well plate.

Wash with PBS.

Fixed for 5 min in 2% formaldehyde and 0.2% glutaraldehyde buffered with PBS.

Washing thrice in PBS.

SOLUBILITY

Soluble in DMSO : 5 mg/mL

In vitro	DMSO : 5 mg/mL

REFERENCES

[1]. Yang NC, et al. A fluorimetric method using fluorescein di-beta-D-galactopyranoside for quantifying the senescence-associated beta-galactosidase activity in human foreskin fibroblast Hs68 cells. Anal Biochem. 2004 Feb 15;325(2):337-43.