

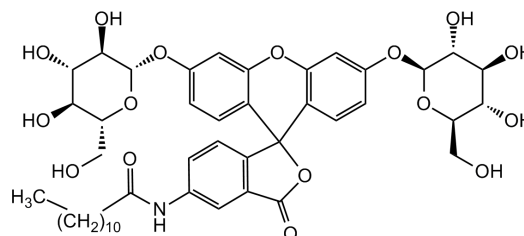
AG-CY1-0001

15-Mar-2017

5-Dodecanoylaminofluorescein Di-β-D-glucopyranoside

[C12-FDGlu]

AG-CY1-0001-M001	1 mg
AG-CY1-0001-M005	5 mg
Formula	C ₄₄ H ₅₅ NO ₁₆
MW	853.9
CAS	149541-10-6



Handling / Storage

Shipping	BLUE ICE
Short Term Storage	+4°C
Long Term Storage	-20°C

Keep cool and dry. Protect from light.

Use / Stability

Stable for at least 2 years after receipt when stored at -20°C.

MSDS available at www.adipogen.com or upon request.

Product Specifications

Purity	≥98% (NMR)
Identity	Determined by ¹ H-NMR.
Appearance	Light yellow powder.
Solubility	Soluble in DMSO or methanol. Slightly soluble in water.

Product Description

- Non-fluorescent reporter protein substrate. This fluorogenic β-glucosidase substrate releases the highly fluorescent dye 5-dodecanoylaminofluorescein (Spectral data: λ_{ex}=490nm, λ_{em}=520nm) in direct correlation with enzyme activity. Can be used for analysis of cell viability.
- This fluorescent substrate is for measuring the presence and activity of a glycosidic enzyme inside a cell. The substrates can penetrate the cell membrane under physiological conditions and forms a non-toxic green fluorescent product that is well retained in viable cells and which allows sorting and cloning of the cells and monitoring of cell development *in vitro* and *in vivo*.
- The colorless and lipophilic substrate enters the cells by embedding in the outer layer of the cell membrane as a glycolipid and then transferring to the inner membrane by a 'flip-flop' mechanism. Once inside the cell,

WARNING: Intended for research use only. This product is not intended or approved for human, diagnostics, therapeutic or veterinary use. Use of this product for human or animal testing is extremely hazardous and may result in disease, severe injury, or death. **MATERIAL SAFETY DATA:** Review the complete Material Safety Data Sheet before use.

North/South America:

Adipogen Corp.
9853 Pacific Heights Blvd., Suite L
San Diego, CA 92121-4721
USA
TEL (858) 457-8383
FAX (858) 457-8484
info-us@adipogen.com

Rest of World:

Adipogen AG
Schützenstrasse 12
4410 Liestal
Switzerland
TEL +41-61-926-60-40
FAX +41-61-926-60-49
info@adipogen.com

For Local Distributors please visit

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the substrate is cleaved by β -glucosidase, generating the green fluorescent enzymatic hydrolysis product 5-dodecanoylamino fluorescein, which is retained in the cell membrane because of its lipophilic hydrocarbon chain, and allowing histochemical, spectrophotometric and fluorometric measurements.

Product Specific References

1. Lipophilic fluorescent glycosidase substrates: R.P. Haugland, et al.; US5208148A (1993)

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