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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

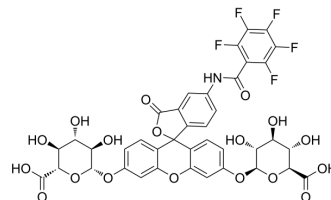
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

FDGlcU

Cat. No.:	HY-D1707
CAS No.:	209540-67-0
Molecular Formula:	C ₃₉ H ₂₈ F ₅ NO ₁₈
Molecular Weight:	893.63
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	FDGlcU can be used as a fluorescent probe for non-invasively image with a high level of fluorescent activity. FDGlcU is non-fluorescent when the fluorescein is conjugated with two mono-glucuronides (Ex/Em=480/514 nm) ^[1] .
In Vitro	FDGlcU (0.5 µg/mL; 12 h) shows enzymatic activity and inhibits βG activity in live bacteria ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	FDGlcU (7.3 µM/kg) can be used for in vivo time-lapse imaging of bacterial βG activity ^[1] . FDGlcU can be used for real-time imaging in vivo ^[1] . Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs). Whole-body imaging for intestinal βG activity ^[1] : <ol style="list-style-type: none"> 1. On the day of imaging, gavage mice with 50 µL of DDW, FDGlcU (7.3 µM/kg), and fluorescein (7.3 µM/kg). 2. Anesthetize mice with isoflurane and whole-body optical images using an IVIS spectrum optical imaging system with a GFP filter set. 3. In biodistribution study, mice are sacrificed 3 hour after gavage with FDGlcU or fluorescein (λ_{ex} =480 nm, λ_{em} =514 nm). MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Chen M, et al. Real-time imaging of intestinal bacterial β-glucuronidase activity by hydrolysis of a fluorescent probe. Sci Rep. 2017 Jun 9;7(1):3142.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA