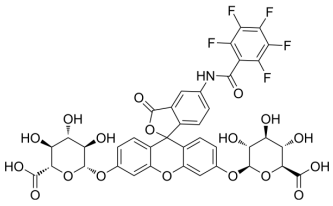
FDGlcU

Cat. No.:	HY-D1707
CAS No.:	209540-67-0
Molecular Formula:	$C_{39}H_{28}F_5NO_{18}$
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]: 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 gavaged with FDGlcU or fluorescein (λex =480 nm, λem =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.

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