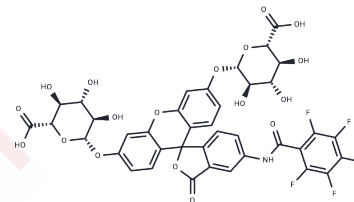


FDGlcU

Chemical Properties

CAS No. :	209540-67-0
Formula:	C ₃₉ H ₂₈ F ₅ N ₂ O ₁₈
Molecular Weight:	893.63
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	FDGlcU is a fluorescent probe used for non-invasive imaging, demonstrating high fluorescent activity. When conjugated with two mono-glucuronides, it is non-fluorescent (Ex/Em=480/514 nm) [1].
Targets(IC50)	Others
In vitro	FDGlcU, at a concentration of 0.5 µg/mL over 12 hours, demonstrates enzymatic activity and inhibits βG activity in live bacteria [1].
In vivo	FDGlcU (7.3 µM/kg) is used for in vivo time-lapse imaging of bacterial βG activity [1]. For whole-body imaging of intestinal βG activity [1], administer 50 µL of DDW, FDGlcU (7.3 µM/kg), and fluorescein (7.3 µM/kg) via gavage on the day of imaging. Anesthetize the mice with isoflurane and perform whole-body optical imaging using an IVIS spectrum optical imaging system with a GFP filter set. In a biodistribution study, sacrifice the mice 3 hours after gavage with FDGlcU or fluorescein (λ _{ex} = 480 nm, λ _{em} = 514 nm). This protocol should be modified according to specific needs.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.119 mL	5.5952 mL	11.1903 mL
5 mM	0.2238 mL	1.119 mL	2.2381 mL
10 mM	0.1119 mL	0.5595 mL	1.119 mL
50 mM	0.0224 mL	0.1119 mL	0.2238 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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