

IMCTA-C14 TFA

Chemical Properties

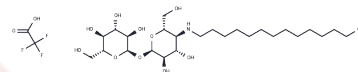
CAS No. :

Formula: C₂₆H₅₁N₁₀O₁₀.CF₃COOH

Molecular Weight: 651.71

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	IMCTA-C14, a detergent and derivative of the microbial metabolite 4-trehalosamine, exhibits a critical micelle concentration (CMC) of 0.11 mM and a hydrophilic-lipophilic balance (HLB) value of 9.72. It effectively extracts proteins, including membrane proteins, from OVK18 ovarian cancer cells at concentrations of 0.05 and 0.5%. Furthermore, IMCTA-C14 demonstrates antibacterial activity against various bacterial strains (MICs = 8-128 µg/ml) and shows cytotoxicity against a spectrum of 52 cancer cell lines (IC50s = 2.9-29.2 µg/ml). At a concentration of 50 µM, it induces autophagy in OVK18 cells.
Targets(IC50)	Others,Antibacterial,Autophagy

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5344 mL	7.6721 mL	15.3442 mL
5 mM	0.3069 mL	1.5344 mL	3.0688 mL
10 mM	0.1534 mL	0.7672 mL	1.5344 mL
50 mM	0.0307 mL	0.1534 mL	0.3069 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

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