

Desthiobiotin-PEG3-NHS ester

Chemical Properties

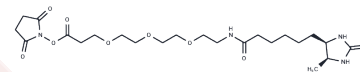
CAS No. : 2411681-92-8

Formula: C₂₃H₃₈N₄O₉

Molecular Weight: 514.569

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

Desthiobiotin-PEG3-NHS ester is a monocyclic, sulfur-free biotin analog characterized by a binding specificity to streptavidin that is nearly identical to that of biotin, although with a lower affinity ($K_d = 10^{11}$ compared to 10^{15} M). Consequently, desthiobiotinylated proteins can be gently and specifically eluted from streptavidin affinity resins under conditions that involve competitive displacement with free biotin.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9434 mL	9.7169 mL	19.4337 mL
5 mM	0.3887 mL	1.9434 mL	3.8867 mL
10 mM	0.1943 mL	0.9717 mL	1.9434 mL
50 mM	0.0389 mL	0.1943 mL	0.3887 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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