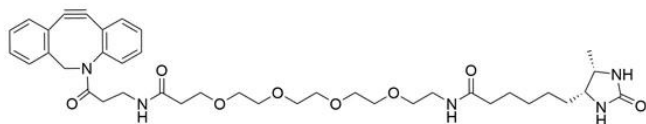


DESTHIOBIOTIN-PEG4-DBCO

SKU: CCT-1108



Description

Desthiobiotin is a single-ring, sulfur-free analog of biotin that binds to streptavidin with nearly equal specificity but less affinity than biotin ($K_d = 10^{11}$ vs. 10^{15} M, respectively). Consequently, desthiobiotinylated proteins can be eluted readily and specifically from streptavidin affinity resin using mild conditions based on competitive displacement with free biotin. For pull-down experiments with biological samples, this soft-release characteristic of desthiobiotin also helps to minimize co-purification of endogenous biotinylated molecules, which remain bound to streptavidin upon elution of the target protein complexes with free biotin.

Specifications

Unit Size	10 mg, 25 mg, 100 mg
Molecular weight	719.87
Chemical composition	C ₃₉ H ₅₁ N ₅ O ₈
CAS	N/A
Solubility	DMSO, DMF, DCM, THF, Chloroform
Purity	>95% (HPLC)
Appearance	Colorless to slightly yellow oil
Storage Conditions	-20°C. Desiccate
Shipping Conditions	Ambient temperature

For research use only. Not intended for animal or human therapeutic or diagnostic use.