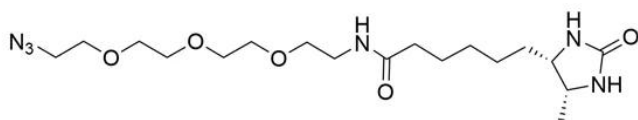


DESTHIOBIOTIN AZIDE

SKU: CCT-1107



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	5 gm, 25 mg, 100 mg
Molecular weight	414.50
Chemical composition	C ₁₈ H ₃₄ N ₆ O ₅
CAS	1306615-47-3
Solubility	DMSO, DMF
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.