



DESTHIOBIOTIN ALKYNE

SKU: CCT-1109



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

CAS Number	1951424-89-7
Molecular Weight	427.23
Appearance	Colorless to slightly yellow oil
Chemical Formula	$C_{21}H_{37}N_3O_6$
Purity	>95% (HPLC)
Unit Size	5 mg, 25 mg, 100 mg
Solubility	DMSO, DMF
Storage Instructions	-20°C
Shipping Conditions	Ambient temperature
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For research use only. Not intended for therapeutic or diagnostic use in animals or humans.



DOCUMENTS

- [Safety Data Sheet](#)
- [Datasheet](#)

GALLERY IMAGES



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