



# **DESTHIOBIOTIN ALKYNE**

**SKU:** CCT-1109



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## **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**

<b>CAS Number</b>	1951424-89-7
<b>Molecular Weight</b>	427.23
<b>Appearance</b>	Colorless to slightly yellow oil
<b>Chemical Formula</b>	$C_{21}H_{37}N_3O_6$
<b>Purity</b>	>95% (HPLC)
<b>Unit Size</b>	5 mg, 25 mg, 100 mg
<b>Solubility</b>	DMSO, DMF
<b>Storage Instructions</b>	-20°C
<b>Shipping Conditions</b>	Ambient temperature
<b>Shipping Instructions</b>	Ambient temperature

**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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