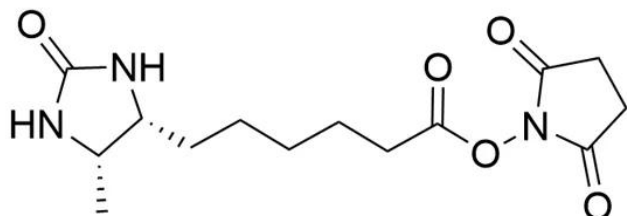


# DESTHIOBIOTIN NHS ESTER

**SKU:** CCT-1201



## 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>Unit Size</b>	100 mg, 500 mg, 1000 mg
<b>Molecular weight</b>	311.34
<b>Chemical composition</b>	C <sub>14</sub> H <sub>21</sub> N <sub>3</sub> O <sub>5</sub>
<b>CAS</b>	80750-24-9
<b>Solubility</b>	DMSO, DMF
<b>Purity</b>	>95%
<b>Appearance</b>	White solid
<b>Storage Conditions</b>	-20°C
<b>Shipping Conditions</b>	Ambient temperature

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