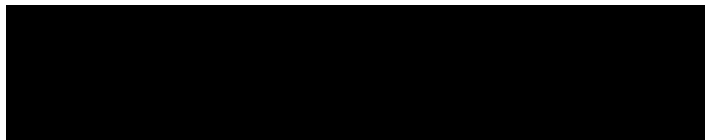




DESTHIOBIOTIN AZIDE

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

CAS Number	1306615-47-3
Molecular Weight	414.5
Appearance	Colorless to slightly yellow oil
Chemical Formula	$C_{18}H_{34}N_6O_5$
Purity	>95% (HPLC)
Unit Size	5 gm, 25 mg, 100 mg
Solubility	DMSO, DMF
Storage Instructions	-20°C. Desiccate
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

For research use only. Not intended for therapeutic or diagnostic use in animals or humans.



SELECTED REFERENCES

1. David, L. L., *et al.* (2021). Chemical Proteomics Approach for Profiling the NAD Interactome. *J Am Chem Soc.*, **143 (18)**, 6787-6791. [[PubMed](#)]
2. Howell, A. R., *et al.* (2021). α -Methylene- β -Lactone Scaffold for Developing Chemical Probes at the Two Ends of the Selectivity Spectrum. *Chembiochem.*, **22 (3)**, 505-515. [[PubMed](#)]

DOCUMENTS

- [Safety Data Sheet](#)
- [Download CoA](#)
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GALLERY IMAGES



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