



IBA Lifesciences GmbH  
Rudolf-Wissell-Str. 28  
37079 Goettingen  
Germany  
Tel.: +49 (0) 551-5 06 72-0  
E-mail: [info@iba-lifesciences.com](mailto:info@iba-lifesciences.com)  
[www.iba-lifesciences.com](http://www.iba-lifesciences.com)

## Data Sheet

# Desthiobiotin

Cat. No.: 2-1000-001; 2-1000-002; 2-1000-005

Version: 6.1  
Revision Date: 28.07.2021

<b>Description</b>	Desthiobiotin is an efficient competitor for the mild elution of Strep-tag®II and Twin-Strep-tag® fusion proteins from Strep-Tactin® resins. It is generally used at 2.5 mM concentration in a buffer compatible with the recombinant target protein. pH 8.0 is recommended. At least, the buffer should be slightly alkaline for efficient dissolution of desthiobiotin.
<b>Full Name/CAS-No.</b>	Desthiobiotin (5-Methyl-2-oxo-4-imidazolidinehexanoic acid), 533-48-2
<b>Formula</b>	C <sub>10</sub> H <sub>18</sub> N <sub>2</sub> O <sub>3</sub>
<b>MW</b>	214.3 g/mol
<b>Form</b>	Powder
<b>Stability</b>	12 months after shipping
<b>Storage</b>	Recommended: 2-8 °C
<b>Shipping</b>	Room temperature
<b>Hazards</b>	Product is not classified as hazardous according to (EC) No 1272/2008 [CLP]. A Material Safety Data Sheet is provided.
<b>Application</b>	Prepare a 2.5 mM working solution for elution of Strep-tag®II or Twin-Strep-tag® proteins from Strep-Tactin® resins. Therefore, completely dissolve 0.107 g desthiobiotin in 200 ml of a buffer compatible with the recombinant protein (e.g., Buffer W: 100 mM Tris-Cl pH 8.0, 150 mM NaCl, 1 mM EDTA). <b>Do not use Desthiobiotin for elution from Strep-Tactin®XT resin!</b>

### For research use only

#### Trademark information

The owners of trademarks marked by “®” or “TM” are identified at <http://www.iba-lifesciences.com/patents.html>. Registered names, trademarks, etc. used in this document, even when not specifically marked as such, are not to be considered unprotected by law.

#### Important licensing information

This product is covered by intellectual property (IP) rights and on completion of the sale IBA Lifesciences grants respective Limited Use Label Licenses to purchaser. IP rights and Limited Use Label Licenses for said technology are further described and identified at <http://www.iba-lifesciences.com/patents.html> or upon inquiry at [info@iba-lifesciences.com](mailto:info@iba-lifesciences.com) or at IBA Lifesciences GmbH, Rudolf-Wissell-Str. 28, 37079 Goettingen, Germany. By use of this product the purchaser accepts the terms and conditions of all applicable Limited Use Label Licenses.