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## MATERIAL DATA SHEET

### Ubiquitin Aldehyde (Ub-H), *human recombinant*

Cat. # U-201

Ubiquitin Aldehyde is a potent and specific inhibitor of Ubiquitin C-terminal hydrolases (UCHs), Ubiquitin-specific proteases (USPs) and Deubiquinating enzymes (DUBs). This protein blocks the hydrolysis of poly-Ubiquitin chains on substrate proteins *in vitro* and thus enhances poly-Ubiquitin chain accumulation. Some DUBs, such as those of the JAMM class, are not inhibited by Ubiquitin Aldehyde.

#### Product Information

<b>Quantity:</b>	50 µg
<b>MW:</b>	8.6 kDa
<b>Stock:</b>	1.4 mg/ml (160µM) in 50 mM HCl
<b>Purity:</b>	> 96% by HPLC.
<b>Activity:</b>	K <sub>i</sub> = 2.5 nM vs. UCH Isopeptidase-T.

#### Use & Storage

<b>Use:</b>	Add Recombinant Human Ubiquitin Aldehyde to <i>in vitro</i> assays to inhibit Deubiquitinating enzymes. Reaction conditions will need to be optimized for each specific application. We recommend an initial Ubiquitin-Aldehyde concentration of 2-5 µM.
<b>Storage:</b>	Store at -80°C. Avoid multiple freeze/thaw cycles. Avoid presence of amino-containing compounds. Do not neutralize until immediately prior to use.

#### Literature

<b>References:</b>	Borodovsky A., <i>et al.</i> (2001) <u>EMBO J.</u> <b>20</b> : 5187-5196
	Dang L.C., <i>et al.</i> (1998) <u>Biochem.</u> <b>37</b> :1868-1879
	Johnston S.C., <i>et al.</i> (1999) <u>EMBO J.</u> <b>18</b> : 3877-3887
	Hu M., <i>et al.</i> (2005) <u>EMBO J.</u> <b>2</b> :
	Melandri F.D., <i>et al.</i> (1996) <u>Biochem.</u> <b>35</b> :12893-12900

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Rev: 04/04/2016

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