

MATERIAL DATA SHEET**HA-Ubiquitin Aldehyde, human recombinant****Cat. # U-211**

Ubiquitin-aldehyde is a potent and specific inhibitor of most deubiquitinating enzymes (DUBs) such as ubiquitin C-terminal hydrolases (UCHs) and ubiquitin-specific proteases (USPs). It prevents the hydrolysis of poly-ubiquitin chains on substrate proteins *in vitro* and thus enhances poly-ubiquitin chain accumulation. This tagged version contains an N-terminal HA peptide sequence (YPYDVPDYA) derived from the influenza hemagglutinin protein. This epitope allows for the sensitive identification or purification of DUBs since it is specifically recognized by anti-HA antibodies and/or anti-HA-agarose.

Product Information

Quantity:	50 µg, lyophilized powder
MW:	9.5 kDa
Solubility:	Resuspend in aqueous buffer to 2 mg/ml. Pellet dry compound prior to reconstitution.
Purity:	> 95% by HPLC.
Activity:	K _i = 2.5 nM vs. UCH-L3.

Use & Storage

Use:	Add Recombinant Human HA-Ubiquitin Aldehyde to <i>in vitro</i> assays to inhibit Deubiquitinating enzymes. The HA-tag allows for detection and purification of Deubiquitinating enzymes activity. Reaction conditions will need to be optimized for each specific application. We recommend an initial Recombinant Human HA-Ubiquitin Aldehyde concentration of 2-5 µM
Storage:	Store powder at -20°C. Store stock solution at -80°C. Avoid multiple freeze/thaw cycles.

Literature

References:	Borodovsky A., <i>et al.</i> (2001) <u>EMBO J.</u> 20 : 5187-5196 Callis J. and Ling R. (2005) <u>Meth. Enzymol.</u> 399 :51-64 Catic A., <i>et al.</i> (2007) <u>PLoS One</u> 2 :e679 Galardy P., <i>et al.</i> (2005) <u>Methods Enz.</u> 399 :120-131 Gredmark S., <i>et al.</i> (2007) <u>J.Virol.</u> 81 :10300-10309 Hemelaar J., <i>et al.</i> (2004) <u>Mol. Cel. Biol.</u> 24 :84-95 Love K.R., <i>et al.</i> (2007) <u>Nat. Chem. Biol.</u> 3 :697-705 Ovaa H., <i>et al.</i> (2005) <u>Methods Enz.</u> 399 :468-478
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Rev: 02/04/2013

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