

Ubiquitin aldehyde, human recombinant

ALTERNATE NAMES: Ub-H

CATALOG #: 4845-50 50 µg

LOT #: _____

SOURCE: E. coli

PURITY: >95% by HPLC

MOL. WEIGHT: 8.5 kDa

PHYSICAL APPEARANCE: Liquid

FORMULATION: An aqueous solution containing 0.15 M HCl

STORAGE CONDITIONS:

Store at -80°C. Stable in aqueous solution at pH <7.0. Avoid presence of amino-containing compounds. Do not lyophilize. Do not neutralize until immediately prior to use.

DESCRIPTION:

The C-terminal glycine carboxyl of Ubiquitin is synthetically modified to an aldehyde. Ubiquitin Aldehyde (Ub-H) is useful in the stabilization of ubiquitin-protein conjugates *in vitro*, enhancing their accumulation in cell lysates and tissue extracts. Inhibition of deubiquitinating enzyme activity by Ub-H can be used to identify and confirm such activity and to determine the inhibition kinetics for a particular enzyme. Recommended concentration for maximal inhibition is 2-5 µM. Co-crystallization of ubiquitin aldehyde with specific deubiquitinating enzymes (the inhibitor mimics the natural ubiquitin substrate) has also been used to probe enzyme:substrate interactions.

BIOLOGICAL ACTIVITY: $K_i = 2.5 \text{ nM}$ vs UCH isopeptidase -T

RELATED PRODUCTS:

- Calpain Inhibitor I, ALLN (**Cat. No. 1834-5, 25**)
- Calpain Inhibitor II, ALLM (**Cat. No. 1834-5, 25**)
- Clasto-Lactacystin β -Lactone (**Cat. No. 1710-100**)
- E6AP Antibody (**Cat. No. 3744-100**)
- (-)-Epigallocatechin gallate (**Cat. No. 1841-50**)
- Isopeptidase T (short form), human recombinant (**Cat. No. 4861-25**)
- Isopeptidase T (long form), human recombinant (**Cat. No. 4862-25**)
- Lactacystin (**Cat. No. 1709-200**)
- MG-115 (**Cat. No. 1831-1, 5**)
- MG-132 (**Cat. No. 1703-5, 25**)
- PS-341 (**Cat. No. 1846-1,5**)
- EZSolution™ MG-132 (**Cat. No. 1791-5**)
- NEDD8-AMC (**Cat. No. 4843-25**)
- Proteasome Substrate, Fluorogenic (**Cat. No. 1832-1, 5**)
- Suc-Leu-Leu-Val-Tyr-AMC (**Cat. No. 1833-5**)
- UbchH1, human recombinant (GST-tag) (**Cat. No. 4846-100**)
- U UbchH2, human recombinant (His-tag) (**Cat. No. 4848-100**)
- UbchH3, human recombinant (His-tag) (**Cat. No. 4849-100**)
- UbchH5a, human recombinant (His-tag) (**Cat. No. 4851-100**)
- UbchH5b, human recombinant (His-tag) (**Cat. No. 4852-100**)
- UbchH5c, human recombinant (His-tag) (**Cat. No. 4854-100**)
- Ubiquitin, human recombinant (**Cat. No. 4841-100,1000**)
- Ubiquitin AMC (**Cat. No. 4842-25**)
- UCH-L1, human recombinant (GST-tag) (**Cat. No. 4855-50**)
- USP7 Antibody (**Cat. No. 3737-100**)
- USP-14 Inhibitor IU1 (**Cat. No. 1845-5, 25**)

FOR RESEARCH USE ONLY! Not to be used on humans.