

Ubiquitin-Propargylamide

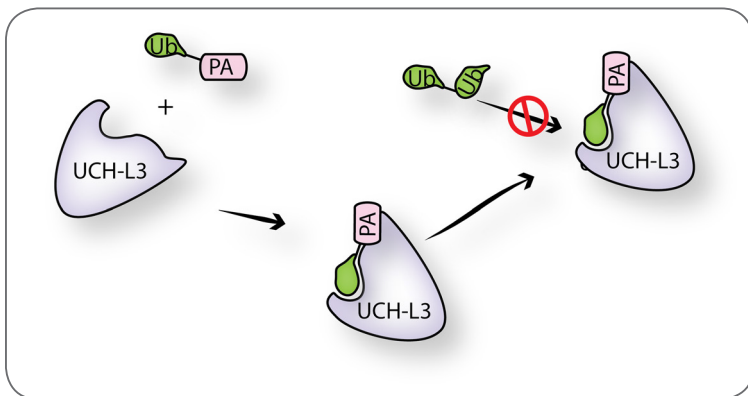
Cat. No. SBB-PS0034
Lot. No. 172440034



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Ubiquitin-Propargylamide

Ubiquitin is a small (8.5 kDa) regulatory protein that has been found in almost all tissues of eukaryotic organisms. The addition of ubiquitin to a substrate protein is called ubiquitination or ubiquitylation. Ubiquitination can affect proteins in many ways; it can signal for their degradation via the proteasome, alter their cellular location, affect their activity, and promote or prevent protein interactions. Removal of ubiquitin from a substrate protein occurs via deconjugating enzymes, of which there are nearly 100 known enzymes with various linkage specificities. This product consists of a full-length human, mature ubiquitin polypeptide (amino acids 1-76), expressed in *E.coli* with a c-terminal warhead (Propargylamide). Ubiquitin-Propargylamide is a potent, irreversible, and specific inhibitor of deubiquitinating enzymes (DUBs) based on a C-terminal electrophilic Propargylamide group. Ub-Propargylamide can be used for activity profiling experiments and determining DUB inhibitor specificity. It targets three of the four major DUB families: UCH (Ubiquitin c-terminal hydrolases), USP (Ubiquitin Specific Proteases), OTU (Ovarian Tumor Proteases), and MJD (Machado-Josephin domain proteases) while JAMM metalloproteases are not inhibited. Reaction conditions will need to be optimized for each specific application. We recommend an initial Recombinant Human Ubiquitin Propargylamide concentration of 1-5 μM .



Product Information

Quantity: 50 μg

Molecular Weight: 8.6 kDa

Concentration: 300 μM , 2.6 mg/mL

Purity: >97% by LCMS

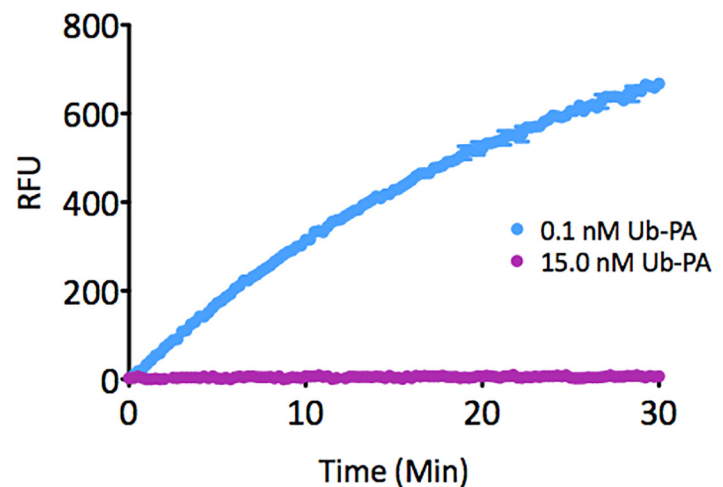
Storage Buffer: 50mM MES pH 6.0, 100mM NaCl

Storage: -80C, Avoid multiple freeze / thaw

Usage: Typical experimental concentration 1-5 μM .

Quality Control and Performance Data

UCHL3 + Ub-AMC + Ubiquitin-Propargylamide



Kinetic Activity. UCHL3 (SBB-DE0023) activity with Ubiquitin-AMC (SBB-PS0043) measured in the presence of 15.0 nM and 0.1 nM Ubiquitin Propargylamide.

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www.southbaybio.com

Contact:
info@southbaybio.com

5941 Optical Ct, Suite 229
San Jose, CA 95138 USA

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References

- 1) Borodovsky et al. 2001, 20, 5187.
 - 2) Xu et al. RSC Adv 2016, 6, 47926.
 - 3) Tong, X. et al. (2012) J. Biol. Chem. 287:25280.
Galardy et al. Methods in Enzymology 2005, 399, 120.
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