

Lot # XXXXX

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MATERIAL DATA SHEET

Ubiquitin-Propargylamine, *human recombinant* Cat. # U-214

Ubiquitin-Propargylamine (Ub-PA) is a potent, irreversible and specific inhibitor of C-terminal hydrolases (UCHs), ubiquitin-specific proteases (USPs), and other deubiquitinases including the Otubains (OTU's). When mixed together, the reactive site cysteine of deubiquitinases and the C-terminal alkyne functional group of Ub-PA rapidly form a covalent bond (vinyl thioether) that is resistant to denaturing conditions. This product is useful for inhibiting the hydrolysis of poly-ubiquitin chains on substrate proteins *in vitro* and thus enhances poly-ubiquitin chain accumulation.

Product Information

Quantity:	50 µg
MW:	8.6 kDa
Solubility:	Soluble in DMSO up to 20 mg/ml
Purity:	> 95 % by HPLC
Activity:	$K_i = < 40$ pM versus UCHL3

Use & Storage

Use:	Typical concentration to inhibit UCHs, USPs or DUBs <i>in vitro</i> is 0.5-5 µM. It is highly recommended that lyophilized powder be reconstituted in DMSO, then further diluted in aqueous buffer to the desired final concentration.
Storage:	Store powder at -20°C. Store stock solution at -80°C. Avoid multiple freeze/thaw cycles.

Literature

References:	Ekkebus R., <i>et al.</i> (2013) <u>J. Am. Chem. Soc</u> 135 : 2867–2870 Sommer S., <i>et al.</i> (2013) <u>Bioorg Med Chem.</u> 21 : 2511-7
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For Laboratory Research Use Only, Not For Use in Humans

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