

Recombinant Full Length Human Ubiquitin Protein, Vinyl Sulfone Labeled

Cat. No. Ubiquitin-16HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This product consists of a full-length human, mature ubiquitin polypeptide (amino acids 1-76), expressed in E. coli with a c-terminal warhead (Vinyl Sulfone).
Species	Human
Source	E.coli
ProteinLength	1-76aa
Description	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. Ubiquitin-Vinyl Sulfone is a potent, irreversible, and specific inhibitor of deubiquitinating enzymes (DUBs) based on a C-terminal electrophilic Vinyl Sulfone group. 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.
Conjugation/Label	Vinyl Sulfone

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Molecular Mass	8.6 kDa
Purity	>97% by LCMS
Usage	Reaction conditions will need to be optimized for each specific application. We recommend an initial Recombinant Human Ubiquitin Vinyl Sulfone concentration of 1-5 μ M.
Applications	Ub-Vinyl Sulfone can be used for activity profiling experiments and determining DUB inhibitor specificity.
Notes	For Research Use Only, Not For Use In Humans.
Storage	Store at -80° centigrade after product arrival. Avoid multiple freeze/thaws. It is recommended to make multiple aliquots after the first thaw.
Storage Buffer	50mM MES pH 6.0, 100mM NaCl
Concentration	250uM, 2.15 mg/mL
Substrate Properties	Protein-Based Substrate. Typical experimental concentration 1-5 μ M.

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