

MATERIAL DATA SHEET**Ubiquitin Vinyl Sulfone (Ub-VS), *human recombinant***
Cat. # U-202

Ubiquitin-Vinyl Sulfone is a potent, irreversible and specific inhibitor of Ubiquitin C-terminal hydrolases (UCHs), Ubiquitin-specific proteases (USPs) and deubiquitinating enzymes (DUBs). This protein is useful for inhibiting the hydrolysis of polyubiquitin chains on substrate proteins *in vitro*, thus enhancing polyubiquitin chain accumulation. Some DUBs, such as those of the JAMM class, are not inhibited by Ubiquitin-Vinyl Sulfone.

Product Information

Quantity:	50 µg
Stock:	2.15 mg/ml (250 µM) in 50 mM MES, pH 6.0
MW:	8.6 kDa
Purity:	> 98 % by HPLC.

Use & Storage

Use:	Add Recombinant Human Ubiquitin-Vinyl Sulfone to <i>in vitro</i> assays to inhibit deubiquitinating enzymes. Reaction conditions will need to be optimized for each specific application. We recommend an initial Ubiquitin-Vinyl Sulfone concentration of 1-5 µM.
Storage:	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 Borodovsky A., <i>et al.</i> (2002) <u>Chem. Biol.</u> 9 : 1149-1159 Borodovsky A., <i>et al.</i> (2005) <u>Chem. Biochem.</u> 6 : 287-291 Hemelaar J., <i>et al.</i> (2004) <u>Mol. Cell. Bio.</u> 24 : 84-95 Kessler B.M. (2006) <u>Exp. Rev. Proteomics.</u> 3 : 213-221 Misaghi S., <i>et al.</i> (2005) <u>J. Biol. Chem.</u> 280 : 1512-1520 Wang G., <i>et al.</i> (2003) <u>Org. Lett.</u> 5 : 737-740 Verma R., <i>et al.</i> (2002) <u>Science</u> 298 : 611-615
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