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MATERIAL DATA SHEET

Recombinant Human His10 USP24
Cat. # E-616

USP24 is a deubiquitinating enzyme (DUB) of the C19 peptidase family. Human USP24 has a predicted molecular weight of 294 kDa and is 98% identical to the mouse orthologue. USP24 reportedly deubiquitinates a wide variety of proteins such as p300, Bax, E2F4, securin, p53 and Mcl-1. In one study, decreased USP24 activity correlated with decreased cell apoptosis and increased cell cycle progression seen in samples from clinical lung cancer patients. Conversely, a compensatory upregulation of USP24 activity resuced myeloma cells from apoptosis when USP9x activity was reduced via RNA-mediated knockdown or chemical inhibition with WP1130. Finally, USP24 is upregulated by DNA damaging agents and plays an important role in maintaining genome stability through its deubiquitination and stabilization of p53. This recombinant enzyme cleaves all poly-Ubiquitin chain linkages *in vitro*, and contains a c-terminal 10-His tag.

Product Information	
Quantity:	50 µg
MW:	296 kDa
Source:	*Spodoptera frugiperda*, *Sf* 21 (baculovirus)-derived human USP24 protein
Stock:	X mg/ml (X µM) is 50 mM HEPES, pH 8.0, 100 mM NaCl, 10% (v/v) Glycerol, 5 mM DTT, 1 mM EDTA
Purity:	>90%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.

Use & Storage	
Use:	Recombinant human USP24 is a Ubiquitin-specific deconjugating enzyme. Reaction conditions will need to be optimized for each specific application. We recommend an initial USP24 concentration of 10-100 nM when using Ubiquitin-AMC or Ubiquitin-Rhodamine 110 substrates.
Storage:	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 24 months from date of receipt, -70 °C as supplied. • 3 months, -70 °C under sterile conditions after opening.

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Literature

References:

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2. Wang S.A. *et al.* (2017) Oncogene **36**: 2930
3. Zhang L. & Gong F. (2016) Mol. Cell Oncol. **3**: e1011888

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