**MATERIAL DATA SHEET**

**His10-USP24, human recombinant**

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 deubiquititates 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 rescued 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 |
| **Stock:** | X mg/ml (X µM) in 50 mM HEPES pH 8, 100 mM NaCl, 10% (v/v) Glycerol, 5 mM DTT, 1 mM EDTA |
| **MW:** | 296 kDa |
| **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.

**Storage:**

Store at -80°C. Avoid multiple freeze/thaw cycles.

### Literature

**References:**


*For Laboratory Research Use Only, Not For Use in Humans*

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