His6-USP48, human recombinant  
Cat. # E-614

USP48 is a deubiquitinating enzyme (DUB) of the C19 peptidase family. Human USP48 has a predicted molecular weight of 119 and is 93% and 94% identical to mouse and rat orthologues, respectively. USP48 has been reported to trim K48-linked poly-Ubiquitin chains, an activity that is regulated by Casein Kinase 2 (CK2)-mediated phosphorylation of the DUB. In conjunction with the COP9 signalosome, nuclear localized USP48 controls the proteasome-dependent turnover of activated NF-κB/RelA in the nucleus together with the CSN. Thereby USP48 contributes to a timely control of immune responses. USP48 has also been indicated in the regulation of blood pressure and sodium balance via interactions with the dopamine D3 receptor (D3R) and the Na⁺-H⁺ exchanger (NHE). Finally, USP48 has been reported to stabilize Mdm2 in a manner that is not dependent on its deubiquitinase activity. This recombinant protein contains an N-terminal 6-His tag.

### Product Information

| Quantity:   | 50 µg |
| Stock:      | X mg/ml (X µM) in 50 mM HEPES pH 7.5, 100 mM NaCl, 10% (v/v) Glycerol, 1 mM TCEP |
| MW:         | 120 kDa |
| Purity:     | > 95% by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie Blue stain |

### Use & Storage

**Use:** Recombinant Human USP48 is a Ubiquitin-specific deconjugating enzyme. Reaction conditions will need to be optimized for each specific application. We recommend an initial USP48 concentration of 10-500 nM.

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

### Literature


For Laboratory Research Use Only, Not For Use in Humans

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