Recombinant Human 6-His Otubain-1
Cat. # E-522B

Otubain-1, also known as OTUB1 or Ubiquitin Thioesterase, is a member of the conserved ovarian tumor (OTU) protein family. It is a 271 amino acid (aa) polypeptide with a predicted molecular weight of 32 kDa. Otubain-1 is 99% identical at the aa level to its mouse and rat orthologs. It is a deubiquitinating enzyme (DUB) that appears to exhibit specificity for K48 Ubiquitin linkages (1). However, Otubain-1 may also affect K63 linkages independent of DUB activity. For instance, Otubain-1 can directly bind to and suppress UBC13 (UBE2N), a Ubiquitin Ligase (E2) that catalyzes the formation K63-linked Ubiquitin chains in response to DNA damage (2-4).

Product Information

| Quantity: | 50 µg |
| MW: | 32 kDa |
| Source: | E. coli-derived  
Contains an N-terminal 6-His tag  
Accession # Q96FW1 |
| Stock: | X mg/ml (X µM) in 50 mM HEPES pH 7.5, 100 mM NaCl, 1 mM TCEP |
| Purity: | >95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain. |

Use & Storage

Use: Recombinant Human His<sub>6</sub>-Otubain-1 is a Ubiquitin-specific deconjugating enzyme. Reaction conditions will need to be optimized for each specific application. We recommend an initial His<sub>6</sub>-Otubain-1 concentration of 1-5 µM.

Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles.  
- 12 months from date of receipt, -70 °C as supplied.  
- 3 months, -70 °C under sterile conditions after opening.
Literature

References:


For research use only. Not for use in humans.