

## OTUB2 Protein, Human (His)

Cat. No.:	HY-P77118
Synonyms:	Ubiquitin thioesterase OTUB2; Otubain-2; C14orf137; OTB2; OTU2
Species:	Human
Source:	E. coli
Accession:	Q96DC9-1 (M1-H234)
Gene ID:	78990
Molecular Weight:	Approximately 28 kDa

### PROPERTIES

AA Sequence	<pre> M S E T S F N L I S   E K C D I L S I L R   D H P E N R I Y R R   K I E E L S K R F T A I R K T K G D G N   C F Y R A L G Y S Y   L E S L L G K S R E   I F K F K E R V L Q T P N D L L A A G F   E E H K F R N F F N   A F Y S V V E L V E   K D G S V S S L L K V F N D Q S A S D H   I V Q F L R L L T S   A F I R N R A D F F   R H F I D E E M D I K D F C T H E V E P   M A T E C D H I Q I   T A L S Q A L S I A   L Q V E Y V D E M D T A L N H H V F P E   A A T P S V Y L L Y   K T S H Y N I L Y A   A D K H           </pre>
Biological Activity	The specific activity was determined to be 73.477 nmol/min/mg in a DUB assay.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, 500 mM arginine, pH 10.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	As a hydrolase, OTUB2 exhibits the capacity to efficiently remove conjugated ubiquitin from proteins in vitro, suggesting a pivotal regulatory role in protein turnover by preventing degradation. With its deubiquitination activity, OTUB2 acts on 'Lys-11', 'Lys-48', and 'Lys-63'-linked polyubiquitin chains, displaying a preference for the latter. This specificity underscores OTUB2's selectivity in modulating diverse ubiquitin linkages, emphasizing its potential significance in orchestrating cellular
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processes related to protein ubiquitination and degradation.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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