

Active Recombinant Human OTULIN, GST-tagged

Cat. No. OTULIN-157H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human OTULIN (amino acid residues 1-352), fused with N-terminal GST, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-352 a.a.
Description	There are two main classes of DUB, cysteine proteases and metalloproteases. OTULIN is a cysteine protease and a member of the OTU (ovarian tumour) superfamily of proteins (Balakirev et al., 2003). Cloning of the human gene was first described by Ota et al. (2004). OTU enzymes play important roles as negative-feedback regulators in NF-κB signalling, interferon signalling and in p97 (cdc48)-mediated processes although the cellular functions of most OTU enzymes remain to be discovered. Ovarian tumour family DUBs contain a papain-like catalytic core of ~180 amino acids.
Form	50 mM HEPES pH 7.5, 150 mM sodium chloride, 2 mM dithiothreitol, 10% glycerol
Bio-activity	Deubiquitylase Enzyme Assay: The activity of GST-OTULIN was validated by the monitoring of mono-ubiquitin generation as a result of the enzyme catalysed cleavage of linear di-ubiquitin. Incubation of the substrate in the presence or absence of GST-OTULIN was compared confirming the deubiquitylating activity of GST-OTULIN.

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Molecular Mass	~67kDa
Purity	>98% by SDS-PAGE
Storage	12 months at -70°C. Avoid multiple freeze/thaw cycles.
Concentration	0.5 mg/ml

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