

MATERIAL DATA SHEET**His6-MBP-HOIP Catalytic Domain, human recombinant**
Cat. # E3-240

HOIP (HOIL-1 Interacting Protein, also known as RNF31) is a RING domain ubiquitin E3 ligase and component of the LUBAC complex. LUBAC, a large (approximately 600 kDa) heteromultimeric assembly consisting of at least HOIP, HOIL-1, and Sharpin, conjugates linear polyubiquitin chains to various substrates and plays a key role in NF- κ B activation and signaling events mediated through TNF α and IFN. Both the catalytic activity and specificity for linear ubiquitin chain formation of LUBAC are contained within the C-terminal RBR (RING-IBR-RING) and LDD (linear ubiquitin chain determining domain) domains of HOIP. HOIL-1 and Sharpin are essential for full-length HOIP activity, but not for HOIP truncation mutants consisting of the RBR and LDD domains. This protein contains N-terminal 6-His and MBP tags, and is useful for generating unanchored linear polyubiquitin chains without the requirement for HOIL-1 or Sharpin. HOIP catalytic domain contains aa's 699-1072 (Accession Number Q96EP0)

Product Information

Quantity:	100 μ g
Stock:	X mg/ml (X μ M) in 50 mM Hepes pH 7.5, 150 mM NaCl, 10% glycerol, 1 mM TCEP
MW:	87 kDa
Purity:	> 90% by SDS-PAGE

Use & Storage

Use:	Typical enzyme concentration to support conjugation <i>in vitro</i> is 0.1-0.5 μ M depending on experimental conditions.
Storage:	Store at -80°C. Avoid multiple freeze/thaw cycles.

Literature

References:	Belgnaoui S.M., <i>et al.</i> (2012) <u>Cell Host Microbe</u> 12 : 211-222 Smit J.J., <i>et al.</i> (2012) <u>EMBO J.</u> 31 : 3833-3844 Stieglitz B., <i>et al.</i> (2012) <u>EMBO Rep.</u> 13 : 840-846 Wauer T. and Komander D. (2013) <u>EMBO J.</u> doi:10.1038/emboj.2013.125
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