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-kB activation and signaling events mediated through TNFα 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

<table>
<thead>
<tr>
<th>Quantity:</th>
<th>100 μg</th>
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<tbody>
<tr>
<td>Stock:</td>
<td>X mg/ml (X μM) in 50 mM Hepes pH 7.5, 150 mM NaCl, 10% glycerol, 1 mM TCEP</td>
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<tr>
<td>MW:</td>
<td>87 kDa</td>
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<td>Purity:</td>
<td>&gt; 90% by SDS-PAGE</td>
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### Use & Storage

**Use:**

Typical enzyme concentration to support conjugation *in vitro* is 0.1-0.5 μM depending on experimental conditions.

**Storage:**

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

### Literature

**References:**


For Laboratory Research Use Only, Not For Use in Humans

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