

**MATERIAL DATA SHEET****His<sub>6</sub>-Pro-ISG15, human recombinant**  
**Cat. # UL-620**

The ubiquitin-like ISG15 is conjugated to intracellular target proteins. This pathway is distinct from that of ubiquitination with different substrate specificities and interactions with ligating enzymes. Pro-ISG15 (165 amino acids) is the inactive precursor of ISG15 (158 amino acids). The precursor is processed at the C-terminus by an ISG15-specific protease UBP43 (also known as USP18). The mature form of ISG15 contains the conserved C-terminal di-glycine residues which are critical in activation and conjugation reactions. This protein can be used as a negative control in ISGylation reactions or as a substrate for UBP43.

**Note: His<sub>6</sub> tag is on the C-terminus of the protein.**

**Product Information**

<b>Quantity:</b>	500 µg
<b>Stock:</b>	X mg/ml (X µM) in 50 mM HEPES pH 8.0, 100 mM NaCl. Actual protein concentration will vary with specific Lot #.
<b>MW:</b>	18.8 kDa
<b>Purity:</b>	> 95 % by SDS-PAGE

**Storage**

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

**Literature**

**References:** Dao C.T. and Zhang D.E. (2005) *Front. Biosci.* **10**: 2346-2365  
Kim K.I. and Zhang D. (2003) *Biochem. Biophys. Res. Comm.* **307**:431-434  
Knight E., *et al.* (1988) *J. Biol Chem.* **263**:4520-4522  
Loeb K.R and Haas A.L. (1992) *J. Biol Chem.* **267**:7806-7813  
Malakhov M.P. (2002) *J. Biol Chem.* **277**:9976-9981  
Potter J.L., *et al.* (1999) *J. Biol Chem.* **267**:25061-25068  
Ritchie K.J and Zhang D.E. (2004) *Sem. Cell. Dev. Bio.* **2**:237-246

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840 Memorial Drive, Cambridge, MA 02139 Phone: 617-241-7072 FAX: 617-492-3565  
[www.bostonbiochem.com](http://www.bostonbiochem.com)

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