

Motilin Protein, Human, Recombinant (His)

General Information

Synonyms:	MLN;Motilin
Protein Construction:	A DNA sequence encoding the human MLN (AAH69675.1) (Met1-Lys115) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Phe 26
Species:	Human
Expression Host:	HEK293 Cells
Accession:	AAH69675.1
Molecular Weight:	11.8 kDa (predicted)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:
It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:
In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

MLN (Motilin) is a Protein Coding gene. 3 alternatively spliced human isoforms have been reported. This gene encodes a small peptide hormone that is secreted by cells of the small intestine to regulate gastrointestinal contractions and motility. The encoded protein belongs to the motilin family. Proteolytic processing of the secreted protein produces the mature peptide and a byproduct referred to as motilin-associated peptide (MAP). MLN plays an important role in the regulation of Interdigestive Gastrointestinal Motility and indirectly causes rhythmic

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contraction of duodenal and colonic smooth muscle. Diseases associated with MLN include Gastroparesis and Duodenogastric Reflux. Among its related pathways are RET signaling and Signaling by GPCR.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481