# Recombinant IMP1L protein (His tag)

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| **Catalog Number** | 550481 |
| **Synonyms** | IMP1-like protein |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q96LU5 |
| **Molecular Weight** | Predictes a molecular mass of 20.16 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 20 kDa band. |

## Product Information

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| **Sequence Region** | 1-166 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >85%, by SDS-PAGE with Coomassie Brilliant Blue staining. |
| **Endotoxin** | Not tested. |
| **Activity** | Not tested. |
| **Stability** | Samples are stable for up to twelve months from date of receipt at -70℃ |
| **Protein Construction** | DNA encoding 1-166 aa (Q96LU5) were fused with 6His tag. |

## Storage & Handling

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| **Reconstitution** | Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. |
| **Storage** | Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| **Shipping** | In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

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| **Description** | Recombinant Human Mitochondrial Inner Membrane Protease Subunit 1 (IMP1-like protein) Fragment (residues 1-166) is a high-quality, soluble protein product designed for structural and functional studies. This fragment, derived from the IMMP1L gene, represents a stable and biochemically active unit ideal for investigating protease mechanisms and mitochondrial protein processing.<br>The full-length Mitochondrial Inner Membrane Protease Subunit 1 (EC 3.4.21.-) is a crucial enzyme located in the mitochondrial inner membrane that catalyzes the removal of transit peptides from proteins targeted from the mitochondrial matrix to the inter-membrane space. It plays a vital role in mitochondrial protein maturation, including the processing of key regulatory proteins such as DIABLO, which is involved in apoptosis. This protease's activity is essential for maintaining mitochondrial function and cellular homeostasis, making it a significant target for research in mitochondrial biology and related diseases. |