# Recombinant NTF2 protein (His tag)

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| **Catalog Number** | 537891 |
| **Synonyms** | NTF-2; Placental protein 15; PP15 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | P61970 |
| **Molecular Weight** | Predictes a molecular mass of 16.13 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 16 kDa band. |

## Product Information

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| **Sequence Region** | 1-127 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >90%, 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 1-127 aa (P61970) 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 Nuclear Transport Factor 2 (NTF-2) Fragment (1-127) - A high-purity protein fragment encompassing the complete NTF2 functional domain, ideal for studying RAN-mediated nucleocytoplasmic transport mechanisms and nuclear import processes.<br>Nuclear Transport Factor 2 (NTF-2), also known as Placental Protein 15 (PP15), plays a critical role in cellular transport by mediating the import of GDP-bound RAN from the cytoplasm into the nucleus. This function is essential for RAN's role in cargo receptor-mediated nucleocytoplasmic transport, making NTF-2 a key regulator of molecular trafficking between cellular compartments. The protein localizes primarily to the nucleoplasm, enriched in nucleoplasmic foci, with additional presence in the cytosol and association with nuclear pore complexes and nuclear membranes. The recombinant fragment (amino acids 1-127) contains the complete NTF2 domain, providing researchers with a specific tool to investigate the molecular mechanisms of nuclear transport and RAN-mediated cellular processes. |