# Recombinant RBFA protein (His tag)

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| **Catalog Number** | 540719 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q8N0V3 |
| **Molecular Weight** | Predictes a molecular mass of 14.96 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band. |

## Product Information

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| **Sequence Region** | 87-205 |
| **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 87-205 aa (Q8N0V3) 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 RBFA (87-205) Protein Fragment - A high-quality, stable fragment of the mitochondrial ribosome-binding factor A, specifically engineered for structural and biochemical research applications. This 119-amino acid fragment represents a soluble and stable domain ideal for investigating mitochondrial ribosome assembly mechanisms.<br>The full-length Putative ribosome-binding factor A is localized to the mitochondrion, as confirmed by experimental evidence. Mitochondrial RBFA plays a crucial role in mitochondrial ribosome biogenesis and function, contributing to the essential processes of protein synthesis within this organelle. The mitochondrial localization underscores its importance in cellular energy production and metabolic regulation, making it a valuable target for studying mitochondrial biology and associated disorders. |