# Recombinant MS18B protein (His tag)

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| **Catalog Number** | 544103 |
| **Synonyms** | Cancer/testis antigen 86; CT86; Opa-interacting protein 5; OIP-5 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | O43482 |
| **Molecular Weight** | Predictes a molecular mass of 19.40 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 19 kDa band. |

## Product Information

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| **Sequence Region** | 68-229 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >89%, 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 68-229 aa (O43482) 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 Protein Mis18-beta (CT86/OIP5) Fragment (aa 68-229) – a high-purity protein fragment encompassing the essential Mis18 domain, designed for functional studies of centromere assembly and mitotic chromosome segregation.<br>Protein Mis18-beta, also known as Cancer/testis antigen 86 (CT86) or Opa-interacting protein 5 (OIP5), is critical for proper chromosome segregation during mitosis by recruiting CENPA to centromeres. It localizes to the nucleus, specifically associating with centromeres from late anaphase through G1 phase, and is undetectable during earlier mitotic stages. This fragment (aa 68-229) includes the Mis18 domain (aa 75-174), enabling focused investigation into domain-specific mechanisms in chromatin and centromere biology. |