# Recombinant MAGD4 protein (His tag)

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| **Catalog Number** | 543387 |
| **Synonyms** | MAGE-D4 antigen; MAGE-E1 antigen |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q96JG8 |
| **Molecular Weight** | Predictes a molecular mass of 28.71 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 30 kDa band. |

## Product Information

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| **Sequence Region** | 411-639 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >88%, 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 411-639 aa (Q96JG8) 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** | This recombinant protein product features a fragment (residues 411-639) of the Melanoma-associated antigen D4 (MAGE-D4 antigen, also known as MAGE-E1 antigen), encoded by the MAGED4 and MAGED4B genes in Homo sapiens. The fragment is engineered to include the complete MAGE domain (residues 413-611), making it an optimal reagent for investigating the domain-specific roles in ubiquitin ligase regulation and related cellular processes.<br>The full-length Melanoma-associated antigen D4 protein is implicated in enhancing the ubiquitin ligase activity of RING-type zinc finger-containing E3 ubiquitin-protein ligases. It is proposed to function by recruiting and/or stabilizing the Ubl-conjugating enzyme (E2) at the E3:substrate complex, as supported by experimental evidence (ECO:0000269\|PubMed:20864041). This role underscores its potential importance in ubiquitination pathways, which are critical for protein degradation, signaling, and cellular homeostasis. The subcellular localization of the full-length protein is not specified in the provided data. |