# Recombinant KHDC4 protein (His tag)

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| **Catalog Number** | 545316 |
| **Synonyms** | Brings lots of money 7; Pre-mRNA splicing factor protein KHDC4 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q7Z7F0 |
| **Molecular Weight** | Predictes a molecular mass of 16.03 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 16 kDa band. |

## Product Information

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| **Sequence Region** | 55-188 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >87%, 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 55-188 aa (Q7Z7F0) 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 KH homology domain-containing protein 4 (KHDC4) fragment (residues 55-188) from Homo sapiens, encompassing the essential KH 1 domain. This high-purity protein is an ideal tool for investigating RNA-binding mechanisms, pre-mRNA splicing regulation, and splice site selection in biochemical and functional studies.<br>KH homology domain-containing protein 4 (KHDC4) is a human RNA-binding protein that plays a critical role in pre-mRNA splicing by interacting with the PRP19C/Prp19 complex/NTC/Nineteen complex, a core component of the spliceosome. It regulates splice site selection and preferentially binds RNA sequences rich in adenine/cytosine and poly-C stretches. The protein localizes to both the nucleus and cytoplasm, underscoring its involvement in key post-transcriptional processes. This recombinant fragment provides a focused resource for studying the specific functions of its KH domain in RNA interactions and splicing mechanisms. |