# Recombinant D42E1 protein (His tag)

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| **Catalog Number** | 550978 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q8WUS8 |
| **Molecular Weight** | Predictes a molecular mass of 33.04 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 33 kDa band. |

## Product Information

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| **Sequence Region** | 1-281 |
| **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 1-281 aa (Q8WUS8) 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 Short-chain dehydrogenase/reductase family 42E member 1 (SDR42E1) fragment (amino acids 1-281), a stable and soluble protein unit ideal for structural studies and biochemical characterization of this membrane-associated enzyme.<br>Short-chain dehydrogenase/reductase family 42E member 1 (SDR42E1) is a multi-pass membrane protein localized to cellular membranes. As a member of the short-chain dehydrogenase/reductase family, this enzyme is involved in oxidoreductase activities, though its specific biological function and substrates remain to be fully characterized. The membrane association suggests potential roles in lipid metabolism, signaling pathways, or other membrane-associated processes. The recombinant fragment (1-281) represents a computationally optimized stable domain suitable for investigating the protein's structural and functional properties. |