# Recombinant OSBL7 protein (His tag)

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| **Catalog Number** | 545875 |
| **Synonyms** | ORP-7; OSBP-related protein 7 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q9BZF2 |
| **Molecular Weight** | Predictes a molecular mass of 18.33 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 19 kDa band. |

## Product Information

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| **Sequence Region** | 1-143 |
| **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 1-143 aa (Q9BZF2) 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 Oxysterol-binding protein-related protein 7 (ORP-7) Fragment (1-143) is a high-purity protein designed for functional studies. This fragment fully encompasses the Pleckstrin Homology (PH) domain, making it an ideal tool for investigating domain-specific interactions, lipid binding, and intracellular signaling mechanisms in a controlled experimental context.<br>Oxysterol-binding protein-related protein 7 (ORP-7), encoded by the OSBPL7 gene, is a human protein involved in lipid metabolism and intracellular trafficking. It localizes to the cytoplasm (cytosol), endoplasmic reticulum membrane, and cell membrane, suggesting roles in lipid transport, membrane contact sites, and cellular signaling pathways. The full-length protein is implicated in maintaining lipid homeostasis and membrane dynamics, though specific functional details are not fully characterized. The provided fragment (amino acids 1-143) enables focused research on the PH domain's contributions to membrane association and regulatory functions. |