# Recombinant ARB2P protein (His tag)

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| **Catalog Number** | 551909 |
| **Synonyms** | Protein FAM172BP |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | A6NC97 |
| **Molecular Weight** | Predictes a molecular mass of 21.04 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band. |

## Product Information

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| **Sequence Region** | 1-164 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >90%, 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 1-164 aa (A6NC97) 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 ARB2BP (FAM172BP) Fragment (aa 1-164) is a high-purity, soluble protein fragment designed for structural and biochemical studies. This 164-amino acid fragment represents a computationally selected stable domain of the putative ARB2BP protein, optimized for experimental applications where full-length membrane protein expression presents challenges.<br>The full-length ARB2BP (also known as FAM172BP) is a human protein annotated as a single-pass membrane protein localized to cellular membranes. As a putative protein, its precise molecular function remains to be fully characterized, positioning it as a protein of interest for functional discovery research. Membrane-associated proteins like ARB2BP often play crucial roles in cellular signaling, transport, and structural organization, making them important targets for understanding fundamental biological processes and potential therapeutic interventions. The selected fragment (amino acids 1-164) was designed based on structural predictions to enhance solubility and stability while maintaining key structural features, facilitating experimental approaches such as crystallization, binding assays, and antibody production that are typically challenging with full-length membrane proteins. |