# Recombinant EFS protein (His tag)

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| **Catalog Number** | 541767 |
| **Synonyms** | hEFS; Cas scaffolding protein family member 3 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | O43281 |
| **Molecular Weight** | Predictes a molecular mass of 15.69 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 16 kDa band. |

## Product Information

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| **Sequence Region** | 427-561 |
| **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 427-561 aa (O43281) 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 product is a recombinant protein fragment of human Embryonal Fyn-associated substrate (hEFS), also known as Cas scaffolding protein family member 3, spanning amino acids 427-561. It is designed as a stable and soluble unit ideal for structural and biochemical studies, supporting research into tyrosine-kinase signaling and cell adhesion mechanisms.<br>Embryonal Fyn-associated substrate (hEFS) is a docking protein that plays a central coordinating role in tyrosine-kinase-based signaling related to cell adhesion. According to available data, it may serve as an activator of SRC and a downstream effector, interacting with the SH3 domain of FYN as well as with CRK, SRC, and YES. This positions hEFS as a key mediator in cellular adhesion pathways, although specific subcellular localization details are not provided. The fragment (residues 427-561) was selected computationally to ensure stability and solubility, facilitating experimental applications in understanding its functional domains. |