# Recombinant STAB1 protein (His tag)

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| **Catalog Number** | 543759 |
| **Synonyms** | Fasciclin, EGF-like, laminin-type EGF-like and link domain-containing scavenger receptor 1; FEEL-1; MS-1 antigen |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q9NY15 |
| **Molecular Weight** | Predictes a molecular mass of 40.63 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 41 kDa band. |

## Product Information

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| **Sequence Region** | 913-1274 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >88%, 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 913-1274 aa (Q9NY15) 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 Stabilin-1 (STAB1) Fragment (913-1274) from Homo sapiens: A high-purity protein fragment engineered to encompass the EGF-like 9, FAS1 3, and FAS1 4 functional domains. Ideal for investigating domain-specific roles in scavenger receptor activity, bacterial defense, and angiogenesis.<br>Stabilin-1 (also known as FEEL-1 or MS-1 antigen) is a single-pass type I membrane protein in humans that functions as a scavenger receptor for acetylated low-density lipoprotein. It binds to both Gram-positive and Gram-negative bacteria, suggesting a role in innate immunity against bacterial infections. Additionally, it contributes to angiogenesis by facilitating cell-cell interactions during endothelial tube formation and is involved in trafficking CHID1/SI-CLP from biosynthetic compartments to endosomal/lysosomal systems. The protein localizes to the membrane, underscoring its relevance in cellular surface interactions and signaling pathways. |