# Recombinant FRS2 protein (His tag)

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| **Catalog Number** | 543261 |
| **Synonyms** | FGFR substrate 2; FGFR-signaling adaptor SNT; Suc1-associated neurotrophic factor target 1; SNT-1 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q8WU20 |
| **Molecular Weight** | Predictes a molecular mass of 14.34 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band. |

## Product Information

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| **Sequence Region** | 2-111 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >86%, 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 2-111 aa (Q8WU20) 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 Fibroblast Growth Factor Receptor Substrate 2 (FRS2) Fragment (aa 2-111) is a high-quality protein product designed for structural and biochemical studies. This 110-amino acid fragment represents a stable, soluble unit of FRS2, optimized for research applications exploring FGFR and NGF receptor signaling pathways.<br>Fibroblast Growth Factor Receptor Substrate 2 (FRS2) is an adapter protein that plays a critical role in intracellular signaling by linking activated FGFR and NGF receptors to downstream pathways. It facilitates MAP kinase activation and regulates phosphatidylinositol 3-kinase through phosphorylation of PIK3R1 in response to FGFR1 activation. Additionally, FRS2 modulates SHC1-mediated signaling by competing for binding sites on NTRK1. The protein is localized to the endomembrane system and functions as a membrane-bound cytoplasmic component, making it essential for receptor tyrosine kinase signaling cascades in cellular processes. |