

Product Information

FRS3, GST-tagged, human recombinant, expressed in *Sf9* insect cells

Catalog Number **SRP5182**
Storage Temperature -70°C

Synonyms: SNT2, FRS2B, FRS2beta, MGC17167

Product Description

FRS3 or fibroblast growth factor receptor substrate 3 is a peripheral plasma membrane protein that is a substrate for the fibroblast growth factor receptor. During FGF or NGF stimulation, FRS3 becomes tyrosine phosphorylated and then serves as a platform for the recruitment of multiple signaling proteins for activation of the Ras-MAP kinase signaling cascade.¹ FRS3 is mainly expressed in fibroblast and myoblast cell lines, and undergoes robust tyrosine phosphorylation in response to several mitogenic ligands. Through interaction with Rho family of small GTPases, FRS3 has been implicated in the reorganization of the actin cytoskeleton and subsequent morphological changes in various cells.²

Recombinant full-length human FRS3 was expressed by baculovirus in *Sf9* insect cells using an N-terminal GST tag. The gene accession number is NM_006653. Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~87 kDa

Purity: 70–95% (SDS-PAGE, see Figure 1)

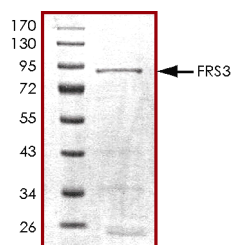
Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at -70°C is recommended. After opening, aliquot into smaller quantities and store at -70°C . Avoid repeated handling and multiple freeze/thaw cycles.

Figure 1.
SDS-PAGE Gel of Typical Lot
70–95% (densitometry)



References

1. Huang, L. et al., SNT-2 interacts with ERK2 and negatively regulates ERK2 signaling in response to EGF stimulation. *Biochem. Biophys. Res. Commun.*, **324**, 1011-1017 (2004).
2. Xu, H. et al., Novel recognition motif on fibroblast growth factor receptor mediates direct association and activation of SNT adapter proteins. *J. Biol. Chem.*, **273**, 17987-17990 (1998).

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