

# Recombinant Human SRP54

Catalog # FL105

## Product Specifications

Appearance	Sterile colorless liquid.
Purity	> 96% by SDS-PAGE or HPLC.
Expression System	Expressed in E. coli.
Species	Human
Tag	C-terminal Flag Tag
Concentration	No less than 10mg/ml, The concentration for a specific batch as shown in the COA
Formulation	A 0.2 μm filtered concentrated solution in 20 mM PB, with 50 mM NaCl, 150 mM Imidazole, 50% (v/v) Glycerol, pH 7.4.
Reconstitution	Before use this product, please read the direction below carefully. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a sterile aqueous buffer to an appropriate concentration. Stock solutions should be aliquoted into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.
Accession #	P61011 Met1-Met504 with a C-terminal flag tag
Amino acid sequence	MVLADLGRKITSALRSLSNATIINEEVLNAMLKEVCTALLEADVNIKLVKQLRENVKSAIDLEEMASGLNKRKMIQHAFKEL VKLVDPGVKAWTPTKGKQNVIMFVGLQGSGKTTTCSKLAYYYQRKGWKTCLICADTFRAGAFDQLKQNATKARIPFYGSY TEMDPVIIASEGVEKFKNENFEIII VDTSGRHKQEDSLFEEMLVANAIQPDNIVYVMDASIGQACEAQAKAFKDKVDVASVI VTKLDGHAKGGGALSAVAATKSPIIFIGTGEHIDDFEPFKTQPFISKLLGMGDIEGLIDKVNELKLDDNEALIEKLKHGQFTLR DMYEQFQNMKMGPFSQLGMIPGFGTDFMSKGNEQESMARLKKLMTIMDSMNDQELDSTDGAKVFSKQPGRIQRVARG SGVSTRDVQELLTQYTKFAQMVKKMGGIKGLFKGGDMSKNVSQSMAKLNQQMAKMMDPRLVHHMGGMAGLQSMMR QFQQGAAGNMKGMMGFNNMGGGSDYKDDDK
Molecular weight	Approximately 56.84 kDa, a single non-glycosylated polypeptide chain containing 515 amino acids.
Synonyms	Signal recognition particle 54kDa protein
Stability & Storage	For long term storage, the product should be stored ≤ -20°C. Please avoid repeated freeze-thaw cycles after reconstitution. 6 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.
Precautions	Recombinant Human SRP54 is for research use only and not for use in diagnostic or therapeutic procedures.

## Background

SRP54, as part of the SRP complex, associates with the SRP receptor (SR) component SRPRA to target secretory proteins to the endoplasmic reticulum membrane. SRP54 is component of the signal recognition particle (SRP) complex, a ribonucleoprotein complex that mediates the co-translational targeting of secretory and membrane proteins to the endoplasmic reticulum (ER). It binds to the signal sequence of presecretory protein when they emerge from the ribosomes and transfers them to TRAM (translocating chain-associating membrane protein). Recombinant Human SRP54 is a 56.84kDa protein globular protein containing 515 amino acid.

