

## Product Data Sheet

## SRP54 Protein, Human (sf9, His)

Cat. No.:	HY-P74537
Synonyms:	Signal recognition particle 54 kDa protein; SRP54
Species:	Human
Source:	Sf9 insect cells
Accession:	P61011 (M1-M504)
Gene ID:	6729
Molecular Weight:	Approximately 58 kDa

Shipping with dry ice.

PRODERTIES	
FROFERILES	
Appearance	Solution
Formulation	Supplied as a 0.2 $\mu m$ filtered solution of 20 mM Tris, pH 7.5, 300 mM NaCl, 10% Glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.

DESCRIPTION	
Background	SRP54, an essential component of the signal recognition particle (SRP) complex, contributes to the cotranslation of secretory and membrane proteins to the endoplasmic reticulum (ER). Within the SRP complex, SRP54 associat SRP receptor (SR) component SRPRA to facilitate the targeting of secretory proteins to the ER membrane. Function forefront of this process, SRP54 binds to the signal sequence of presecretory proteins as they emerge from the rite Notably, SRP54 exhibits basal GTPase activity and collaborates in the reciprocal GTPase activation of the SR subtropy forming a GTP-dependent complex crucial for SRP-mediated cotranslational protein translocation into the ER. The of SRP9/SRP14 and/or SRP19 is required for the stable interaction of SRP54 with RNA. Beyond its role in protein translocation, SRP54 plays a significant part in diverse cellular processes, including the regulation of granulocytic proliferation, neutrophil migration capacity, and the development of the exocrine pancreas.

## Caution: Product has not been fully validated for medical applications. For research use only.

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Shipping