

SAR1A Protein, Human (GST)

Cat. No.:	HY-P71634
Synonyms:	COPII associated small GTPase; COPII-associated small GTPase; GTP binding protein SAR1a; GTP-binding protein SAR1a; Masra 2; Masra2; SAR 1; SAR1 gene homolog A; SARA 1; Sara; SARA1
Species:	Human
Source:	E. coli
Accession:	Q9NR31 (1M-198D)
Gene ID:	56681
Molecular Weight:	Approximately 49.4 kDa

PROPERTIES

AA Sequence	<p> M S F I F E W I Y N G F S S V L Q F L G L Y K K S G K L V F L G L D N A G K T T L L H M L K D D R L G Q H V P T L H P T S E E L T I A G M T F T T F D L G G H E Q A R R V W K N Y L P A I N G I V F L V D C A D H S R L V E S K V E L N A L M T D E T I S N V P I L I L G N K I D R T D A I S E E K L R E I F G L Y G Q T T G K G N V T L K E L N A R P M E V F M C S V L K R Q G Y G E G F R W L S Q Y I D </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>SAR1A Protein plays a crucial role in intracellular transport, specifically in facilitating the movement of cargo from the endoplasmic reticulum to the Golgi apparatus. By engaging in SAR1A-GTP-dependent assembly, it actively contributes to the organization of endoplasmic reticulum exit sites (ERES) by forming a structured scaffold that defines these sites on the ER membrane. Additionally, SAR1A is essential for maintaining the localization of SEC16A at discrete locations on the ER membrane, possibly by preventing its dissociation. The intricate interplay between SAR1A and SEC16A highlights the significance of SAR1A in orchestrating the molecular machinery involved in the precise regulation of membrane trafficking. Moreover, SAR1A interacts with B3GAT1, further underscoring its involvement in molecular interactions critical for cellular transport processes.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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