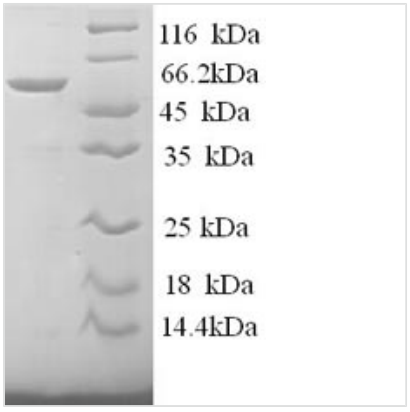
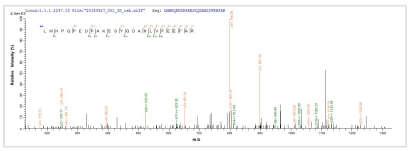
Recombinant Human S-arrestin (SAG)

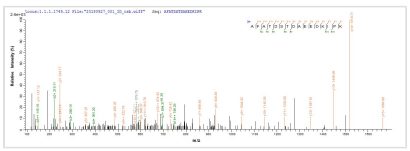
Product Code	CSB-YP020669HU
Relevance	Arrestin is one of the major proteins of the ros (retinal rod outer segments); it binds to photoactivated-phosphorylated rhodopsin, thereby apparently preventing the transducin-mediated activation of phosphodiesterase.
Abbreviation	Recombinant Human SAG protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P10523
Alias	48 kDa protein Retinal S-antigen Short name: S-AG Rod photoreceptor arrestin
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MAASGKTSKSEPNHVIFKKISRDKSVTIYLGNRDYIDHVSQVQPVDGVVLVDPD LVKGKKVYVTLTCAFRYGQEDIDVIGLTFRRDLYFSRVQVYPPVGAASTPTKLQ ESLLKKLGSNTYPFLLTFPDYLPCSVMLQPAPQDSGKSCGVDFEVKAFATDST DAEEDKIPKKSSVRLLIRKVQHAPLEMGPQPRAEAAWQFFMSDKPLHLAVSLN KEIYFHGEPIPVTVTVTNNTEKTVKKIKAFVEQVANVVLYSSDYYVKPVAMEEA QEKVPPNSTLTKTLTLLPLLANNRERRGIALDGKIKHEDTNLASSTIIKEGIDRTV LGILVSYQIKVKLTVSGFLGELTSSEVATEVPFRLMHPQPEDPAKESYQDANLV FEEFARHNLKDAGEAEEGKRDKNDVDE
Research Area	Signal Transduction
Source	Yeast
Target Names	SAG
Protein Names	Recommended name: S-arrestin Alternative name(s): 48 kDa protein Retinal S-antigen Short name= S-AG Rod photoreceptor arrestin
Expression Region	1-405aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	47.1kDa
Protein Length	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of Yeast host and target protein, the LC-MS/MS Analysis result of CSB-YP020669HU could indicate that this peptide derived from Yeast-expressed Homo sapiens (Human) SAG.



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Description

Unlock the potential of signal transduction research with our Recombinant Human SAG protein. S-arrestin, also known as retinal S-antigen or rod photoreceptor arrestin, plays a crucial role in the regulation of phototransduction in the retina. By modulating the activity of rhodopsin, a light-sensitive G protein-coupled receptor, SAG contributes to the desensitization and adaptation of photoreceptor cells, allowing them to adjust to changing light conditions.

Our Recombinant Human SAG protein is expressed in yeast, resulting in a full-length protein (1-405aa) that maintains its native structure and function. The N-terminal 6xHis-tag allows for efficient purification and easy detection of the protein. With a purity greater than 90% as determined by SDS-PAGE, our Recombinant Human SAG protein ensures reliable and consistent results for your signal transduction research. Available in both liquid and lyophilized powder forms, our Recombinant Human SAG protein is an indispensable tool for exploring the complex world of cellular signaling pathways.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.
Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.