

## SAG Protein, Human, Recombinant (His)

### General Information

Synonyms: Retinal S-antigen (S-AG); Rod photoreceptor arrestin; 48 kDa protein; SAG; S-arrestin

Protein Construction: 1-405 aa

Species: Human

Expression Host: P. pastoris (Yeast)

Accession: P10523

Molecular Weight: 47.1 kDa (predicted)

AA Sequence:

MAASGKTSKSEPNHVIFKKISRDKSVTIYLGNRDYIDHVSQVQPVDGVLVDPDLVKGKKVYVTLTCAFYRQ  
EDIDVIGLTFRRDLYFSRVQVYPPVGAASPTKLQESLLKLGSNTPFLTFPDYLPSCVMLQPAPQDSGKSC  
GVDFEVKAFATDSTDAEEDKIPKSSVRLIRKQVHAPLEMGPQPRAEAAWQFFMSDKPLHLAVSLNKEIYFH  
GEPIPVTVTNTEKTVKKIKAFVEQVANVLYSSDYVVKPVAMEEAQEKVPPNSTLTKLTLPLANNRER  
RGIALDGKIKHEDTNLASSTIIKEGIDRTVLGILVSYQIKVKLTVSGFLGELTSSEVATEVPFRLMHPQPEDPAKES  
YQDANLVFEEFARHNLKDAGEAEEGKRDKNDVDE

### QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

### Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

*Actual storage temperature shall be subject to the COA.*

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Binds to photoactivated, phosphorylated RHO and terminates RHO signaling via G-proteins by competing with G-proteins for the same binding site on RHO. May play a role in preventing light-dependent degeneration of retinal

photoreceptor cells.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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