

Recombinant Full Length Human SAG Protein, C-Flag-tagged

Cat. No. SAG-567HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human SAG Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	Members of arrestin/beta-arrestin protein family are thought to participate in agonist-mediated desensitization of G-protein-coupled receptors and cause specific dampening of cellular responses to stimuli such as hormones, neurotransmitters, or sensory signals. S-arrestin, also known as S-antigen, is a major soluble photoreceptor protein that is involved in desensitization of the photoactivated transduction cascade. It is expressed in the retina and the pineal gland and inhibits coupling of rhodopsin to transducin in vitro. Additionally, S-arrestin is highly antigenic, and is capable of inducing experimental autoimmune uveoretinitis. Mutations in this gene have been associated with Oguchi disease, a rare autosomal recessive form of night blindness.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	44.9 kDa
AA Sequence	MAASGKTSKSEPNHVIFKKISRDKSVTIYLGNRDYIDHVSQVQPVDGVVLVDPDLVK GKKVYVTLTCAFR YGQEDIDVIGLTFRRDLYFSRVQVYPPVGAASTPTKLQESLLKK LGSNTYPFLLTFPDYLPCSVMLQPAP QDSGKSCGVDFEVKAFATDSTD AEEDKIPK

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KSSVRLIRKVQHAPLEMGPQPRAEAAWQFFMSDKPLHLA VSLNKEIYFHGEPIPVT
 VVTNNTTEKTVKKIKAFVEQVANVVLYSSDYYVKPVAMEEAQEKVPPNSTLTK TLTL
 LPLLTNNRERRGIALDGKIKHEDTNLASSTIIKEGIDRTVLGILVSYQIKVKLTVSGFLGE
 LTSSE
 VATEVPFRLMHPQPEDPAKESYQDANLVFEEFARHNLKDAGEAEEGKRDKNVDE
 TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Full Length	Full L.

GENE INFORMATION

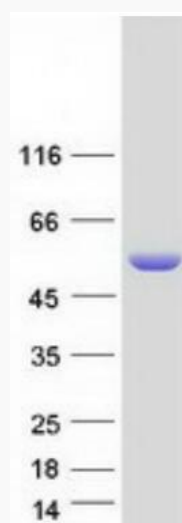
Gene Name	SAG S-antigen visual arrestin [Homo sapiens (human)]
Official Symbol	SAG
Synonyms	RP47; S-AG

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Gene ID	6295
mRNA Refseq	NM_000541.5
Protein Refseq	NP_000532.2
MIM	181031
UniProt ID	P10523



Coomassie blue staining of purified SAG protein.