

SAG Blocking Peptide (C-Term)

Synthetic peptide

Catalog # BP21724b

Specification

SAG Blocking Peptide (C-Term) - Product Information

Primary Accession

[P10523](#)**SAG Blocking Peptide (C-Term) - Additional Information**

Gene ID 6295

Other Names

S-arrestin, 48 kDa protein, Retinal S-antigen, S-AG, Rod photoreceptor arrestin, SAG

Target/Specificity

The synthetic peptide sequence is selected from aa 293-307 of HUMAN SAG

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SAG Blocking Peptide (C-Term) - Protein Information

Name SAG

Function

Binds to photoactivated, phosphorylated RHO and terminates RHO signaling via G-proteins by competing with G-proteins for the same binding site on RHO (By similarity). May play a role in preventing light-dependent degeneration of retinal photoreceptor cells (PubMed:9565049).

Cellular Location

Cell projection, cilium, photoreceptor outer segment. Membrane {ECO:0000250|UniProtKB:P20443}; Peripheral membrane protein {ECO:0000250|UniProtKB:P20443}. Note=Highly expressed in photoreceptor outer segments in light-exposed retina. Evenly distributed throughout rod photoreceptor cells in dark-adapted retina (By similarity) Predominantly detected at the proximal region of photoreceptor outer segments, near disk membranes (PubMed:3720866) {ECO:0000250|UniProtKB:P08168, ECO:0000269|PubMed:3720866}

Tissue Location

Detected in retina, in the proximal portion of the outer segment of rod photoreceptor cells (at protein level)

SAG Blocking Peptide (C-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

SAG Blocking Peptide (C-Term) - Images

SAG Blocking Peptide (C-Term) - Background

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.

SAG Blocking Peptide (C-Term) - References

Yamaki K.,et al.FEBS Lett. 234:39-43(1988).
Yamaki K.,et al.FEBS Lett. 236:507-507(1988).
Yamamoto S.,et al.Nat. Genet. 15:175-178(1997).
Hillier L.W.,et al.Nature 434:724-731(2005).
Roni V.,et al.BMC Genomics 8:42-42(2007).