Proteins

Inhibitors



Product Data Sheet

RCVRN Protein, Human (P. pastoris, His)

Cat. No.: HY-P71778

Synonyms: 23kDa photoreceptor cell-specific protein; CAR; CAR protein; p26; Protein CAR; RCV1; RCVRN;

Room temperature in continental US; may vary elsewhere.

Recoverin; S-modulin

Species: Human Source: P. pastoris

Accession: P35243 (2G-200A)

Gene ID: 5957

Molecular Weight: Approximately 25.0 kDa

PROPERTIES

AA Sequence						
	GNSKSGALSK EILEELQLNT KFSEEELCSW YQSFLKDCPT					
	GRITQQQFQS IYAKFFPDTD PKAYAQHVFR SFDSNLDGTL					
	DFKEYVIALH MTTAGKTNQK LEWAFSLYDV DGNGTISKNE					
	VLEIVMAIFK MITPEDVKLL PDDENTPEKR AEKIWKYFGK					
	NDDDKLTEKE FIEGTLANKE ILRLIQFEPQ KVKEKMKNA					
Аппоскопос	Luanhiliand naudor					
Appearance	Lyophilized powder.					
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.					
Tormutation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.					
Endotoxin Level	<1 EU/μg, determined by LAL method.					
Endotoxin Ecvet	1 Ed/pg, determined by Elementod.					
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.					
	μω που					
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					
<i>5</i> ,	recommended to freeze aliquots at -20°C or -80°C for extended storage.					

DESCRIPTION

Background

Shipping

RCVRN protein serves as a calcium sensor, intricately involved in regulating phototransduction in both cone and rod photoreceptor cells. It plays a crucial role in modulating the light sensitivity of cone photoreceptors, particularly in dark and dim conditions. In response to elevated Ca(2+) levels induced by low light, RCVRN extends the activation of RHO/rhodopsin in rod photoreceptor cells by binding to and inhibiting GRK1-mediated phosphorylation of RHO/rhodopsin. This protein contributes to scotopic vision, enhancing vision in low-light conditions by facilitating signal transfer between rod photoreceptors and rod bipolar cells. Moreover, RCVRN improves rod photoreceptor sensitivity in dim light, mediating responses that aid in the detection of changes and motion in bright light. Existing as a homodimer, RCVRN undergoes disulfide-linked dimerization, a process triggered by prolonged intense illumination. Additionally, RCVRN may form a

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 $complex\ with\ RHO\ and\ GRK1\ in\ a\ Ca(2+)-dependent\ manner,\ preventing\ the\ interaction\ between\ GRK1\ and\ RHO.$

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