

Recombinant Human Recoverin

Cat. No. RCVRN-191H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Recoverin produced in <i>E. Coli</i> is a single, non-glycosylated polypeptide chain. The protein contains 200 amino acids and has a molecular mass of 23 kDa.
Species	Human
Source	E.coli
Description	Recoverin is a heterogeneously acylated calcium-binding and intracellular signal transduction protein in the photoreceptor cells of retina. Recoverin contains four EF-hands, of which two bind Ca. Ca-induced extrusion of the acyl group from a hydrophobic cleft in the protein drives the translocation of recoverin from solution to the disc membrane. Recently, recoverin is a detectable serologic protein that is expressed in patients with cancer-associated retinopathy, a paraneoplastic syndrome.
Amino Acid Sequence	MGNSKSGALS KEILEELQLN TKFSEEELCS WYQSFLKDCP TGRITQQQFQ SIYAKFFPDT DPKAYAQHVF RSFDSNLDGT LDFKEYVIAL HMTTAGKTNQ KLEWAFSLYD VDGNGTISKNEVLEIVMAIF KMITPEDVKL LPDDENTPEK RAEKIWKYFG KNDDDKLTEK EFIEGTLANK EILRLIQFEP QKVKEKMKNA.
Physical Appearance	Sterile filtered colorless solution.
Formulation	The protein (1mg/ml) contains 20 mM Tris pH 8.0, 1 mM EDTA, 2mM MgCl ₂ and 10% Glycerol.

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Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Stability	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
GENE INFORMATION	
Gene Name	RCVRN recoverin [Homo sapiens]
Synonyms	RCVRN; RCV1; recoverin; RCV-1; Cancer-associated retinopathy protein; Protein CAR; cancer associated retinopathy antigen
Gene ID	5957
mRNA Refseq	NM_002903
Protein Refseq	NP_002894
MIM	179618
UniProt ID	P35243
Chromosome Location	17p13
Function	calcium ion binding; calcium sensitive guanylate cyclase activator activity