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## Product Data Sheet

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Product Name: Recoverin Human

Cat. No.: GP24361

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	RCV1; Cancer-associated retinopathy protein; Protein CAR; RCVRN; Recoverin.		
Amino Acid Sequence	MGNSKSGALS KEILEELQLN TKFSEEELCS WYQSFLKDCP TGRITQQQFQ SIYAKFFPDT DPKAYAQHV F RSFDSNLDGT LDFKEYVIAL HMTTAGKTNQ KLEWAFSLYD VDGNGTISKNEVLEIVMAIF KMITPEDVKL LPDDENTPEK RAEKIWKYFG KNDDDKLTEK EFIEGTLANK EILRLIQFEP QKVKEKMKNA.		
Formulation	The protein (1mg/ml) contains 20mM Tris-HCl pH 8.0, 1mM EDTA, 2mM MgCl <sub>2</sub> and 10% Glycerol.		

**Introduction**

Recoverin is a member of the recoverin family of neuronal calcium sensors. Recoverin is a heterogeneously acylated calcium-binding and intracellular signal transduction 23kDa 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. Recoverin may prolong the termination of the phototransduction cascade in the retina by blocking the phosphorylation of photo-activated rhodopsin. Recoverin plays a key role in the inhibition of rhodopsin kinase, a molecule that regulates the phosphorylation of rhodopsin. This in due course controls the ability of the eye to adapt to, and recover from, exposure to the presence of light. Recoverin is a detectable serologic protein that is expressed in patients with cancer-associated retinopathy, a paraneoplastic syndrome.

**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. For long term storage it is recommended to add a carrier protein (0.1%

**Caution: Product has not been fully validated for medical applications. For research use only.**

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

Recoverin Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 200 amino acids & having a molecular mass of 23kDa.

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