



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Datasheet

### RGR (Human) Recombinant Protein (P01)

**Catalog Number:** H00005995-P01

**Regulation Status:** For research use only (RUO)

**Product Description:** Human RGR full-length ORF (AAH11349, 1 a.a. - 295 a.a.) recombinant protein with GST-tag at N-terminal.

**Sequence:**

```
MAETSALPTGFGELEVLAVGMVLLVEALSGLSLNLTIF
SFCKTPELRTPCHLLVLSLALADSGISLNALVAATSSLL
RVSHRRWPYGS DGCQAHGFQGFVTALASICSSAAIA
WGRYHHYCTRSQ L WNSAVSLVLFVWLSSAFWAALP
LLGWGHYDYEPLGTCCTLDYSGDRNFTSFLTMSFF
NFAMPLFITITSYSLMEQKLGKSGHLQVNTTLPARTLLL
GWGPYAILYLYAVIADVTSISP K LQMVPALIAKMVPTIN
AINYALGNEMVCRGIWQCLSPQKREKDRTK
```

**Host:** Wheat Germ (in vitro)

**Theoretical MW (kDa):** 58.19

**Applications:** AP, Array, ELISA, WB-Re  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at  
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Preparation Method:** [in vitro wheat germ expression system](#)

**Purification:** Glutathione Sepharose 4 Fast Flow

**Storage Buffer:** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction:** Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 5995

**Gene Symbol:** RGR

**Gene Alias:** -

**Gene Summary:** This gene encodes a putative retinal G-protein coupled receptor. The gene is a member of the opsin subfamily of the 7 transmembrane, G-protein coupled receptor 1 family. Like other opsins which bind retinaldehyde, it contains a conserved lysine residue in the seventh transmembrane domain. The protein acts as a photoisomerase to catalyze the conversion of all-trans-retinal to 11-cis-retinal. The reverse isomerization occurs with rhodopsin in retinal photoreceptor cells. The protein is exclusively expressed in tissue adjacent to retinal photoreceptor cells, the retinal pigment epithelium and Mueller cells. This gene may be associated with autosomal recessive and autosomal dominant retinitis pigmentosa (arRP and adRP, respectively). Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq]