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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet

GUCA1A (Human) Recombinant Protein (Q01)

Catalog Number: H00002978-Q01

Regulation Status: For research use only (RUO)

Product Description: Human GUCA1A partial ORF (NP_000400, 1 a.a. - 93 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence:
MGNVMEGKSVEELSSTECHQWYKKFMTECPSGQLTL YEFRQFFGLKNLSPSASQYVEQMFETFDFNKDGYIDF MEYVAALSLVLKGKVEQKLR

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 35.97

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: 2978

Gene Symbol: GUCA1A

Gene Alias: COD3, GCAP, GCAP1, GUCA, GUCA1

Gene Summary: This gene plays a role in the recovery of retinal photoreceptors from photobleaching. In the recovery phase, the phototransduction messeneger cGMP is replenished by retinal guanylyl cyclase-1 (GC1). GC1 is activated by decreasing Ca(2+) concentrations following photobleaching. The protein encoded by this gene, guanylyl cyclase activating protein 1 (GCAP1), mediates the sensitivity of GC1 to Ca(2+) concentrations. GCAP1 promotes activity of GC1 at low Ca(2+) concentrations and inhibits GC1 activity at high Ca(2+) concentrations. Mutations in this gene cause autosomal dominant cone dystrophy (COD3); a disease characterized by reduced visual acuity associated with progressive loss of color vision. Mutations in this gene prohibit the inactivation of RetGC1 at high Ca(2+) concentrations; causing the constitutive activation of RetGC1 and, presumably, increased cell death. This gene is expressed in retina and spermatagonia. [provided by RefSeq]