

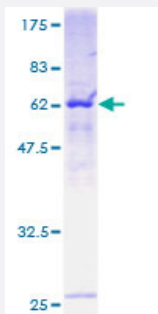
Full-Length

RFC5 (Human) Recombinant Protein (P01)

Catalog # H00005985-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human RFC5 full-length ORF (AAH13961, 1 a.a. - 340 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

METSALKQQEQPAATKIRNLPWVEKYRPQTLNDLISHQDILSTIQKFINE DRLPHLLLYGPPGTGKTS
TILACAKQLYKDKEFGSMVLELNASDDRGIIRGPILSFASTRTIFKKGFKLVILDEADAMTQDAQN
ALRRVIEKFTENTRFCLICNYLSKIIPALQSRCTRFRFGPLTPELMAPRLEHVVEEEKVDISEDGMKA
LVTLS SSGDMRRALNILQSTNMAFGKVTEETVYTCTGHPLKSDIANILDWMLNQDFTTAYRNITELKTL
KGLALHDILTEIHLFVHRVDFPSSVRIHLLTKMADIEYRLSVGTNEKIQ LSSLIAAFQVTRDLVAEA

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

63.14

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

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.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — RFC5

Entrez GeneID [5985](#)

GeneBank Accession# [BC013961](#)

Protein Accession# [AAH13961](#)

Gene Name RFC5

Gene Alias MGC1155, RFC36

Gene Description replication factor C (activator 1) 5, 36.5kDa

Omim ID [600407](#)

Gene Ontology [Hyperlink](#)

Gene Summary The elongation of primed DNA templates by DNA polymerase delta and DNA polymerase epsilon requires the accessory proteins proliferating cell nuclear antigen (PCNA) and replication factor C (RFC). RFC, also named activator 1, is a protein complex consisting of five distinct subunits of 14 0, 40, 38, 37, and 36 kD. This gene encodes the 36 kD subunit. This subunit can interact with the C-terminal region of PCNA. It forms a core complex with the 38 and 40 kDa subunits. The core complex possesses DNA-dependent ATPase activity, which was found to be stimulated by PCNA in an in vitro system. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq]

Other Designations A1 36 kDa subunit|RFC, 36.5 kD subunit|activator 1 36 kDa subunit|replication factor C (activator 1) 5 (36.5kD)|replication factor C 5

Pathway

- [DNA replication](#)

- [Mismatch repair](#)
- [Nucleotide excision repair](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Graft vs Host Disease](#)
- [Multiple Sclerosis](#)
- [Urinary Bladder Neoplasms](#)