

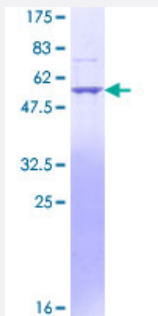
Full-Length

ENDO G (Human) Recombinant Protein (P01)

Catalog # H00002021-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human ENDO G full-length ORF (AAH04922.1, 50 a.a. - 297 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

ELPPVPGGPRGPGELAKYGLPGLAQLKSRESYVLCYDPRTRGALWVVEQLRPERLRGDGDRRE
CDFREDDSVHAYHRATNADYRGSGFDRGHLAAAANHRWSQKAMDDTFYLSNVAPQVPHLNQN
AWNNLEKYSRSLTRSYQNVYVCTGPLFLPRTEADGKSYVKYQVIGKNHVAVPTHFFKVLILEAAGG
QIELRTYVMPNAPVDEAIPLERFLVPIESIERASGLLFVFNILARAGSLKAITAGSK

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

53.02

Interspecies Antigen Sequence

Mouse (93); Rat (92)

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 — ENDOG

Entrez GeneID [2021](#)**GeneBank Accession#** [BC004922](#)**Protein Accession#** [AAH04922.1](#)**Gene Name** ENDOG**Gene Alias** FLJ27463**Gene Description** endonuclease G**Omim ID** [600440](#)**Gene Ontology** [Hyperlink](#)

Gene Summary The protein encoded by this gene is a nuclear encoded endonuclease that is localized in the mitochondrion. The encoded protein is widely distributed among animals and cleaves DNA at GC tracts. This protein is capable of generating the RNA primers required by DNA polymerase gamma to initiate replication of mitochondrial DNA. [provided by RefSeq]

Other Designations OTTHUMP00000022301

Publication Reference

- [Endonuclease G modulates the alternative splicing of deoxyribonuclease 1 mRNA in human CD4+ T lymphocytes and prevents the progression of apoptosis.](#)

Zhdanov DD, Gladilina YA, Pokrovsky VS, Grishin DV, Grachev VA, Orlova VS, Pokrovskaya MV, Alexandrova SS, Plyasova AA, Sokolov NN.

Biochimie 2018 Dec; 157:158.

Application: Func, Human, Human lymphocytes

- [\[Apoptotic endonuclease EndoG regulates alternative splicing of human telomerase catalytic subunit hTERT\].](#)

Zhdanov DD, Vasina DA, Orlova EV, Orlova VS, Pokrovskaya MV, Aleksandrova SS, Sokolov NN.

Biomeditsinskaiia Khimiia 2016 Jul; 62(5):544.

Application: Func, Human, Caco-2 cells

Pathway

- [Apoptosis](#)