

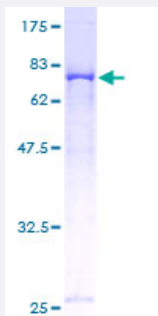
Full-Length

FKBP5 (Human) Recombinant Protein (P01)

Catalog # H00002289-P01

Size 10 ug, 25 ug

Applications



Specification

Product Description

Human FKBP5 full-length ORF (AAH42605, 1 a.a. - 457 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MTTDEGAKNNEESPTATVAEQGEDITSKKDRGVLKMKRVGNGEETPMIGDKVYVHYKGKLSNGK
KFDSSHDRNEPFVFSLGKGQVIKAWDIGVATMKKGEICHLLCKPEYAYGSAGSLPKIPSNATLFFEI
ELLDFKGEDLFEDGGIIRRTKRKGEGYSNPNEGATVEIHLEGRCGGRMFDCRDVAFTVGEGEDH
DIPIGDKALEKMQREEQCILYLGPRYGFGEAGKPKFGIEPNAELIYVTLKSFEKAKESWEMDTKE
KLEQAAMVKEKGTVYFKGGKYMQAVIQYGMVSWLEMEYGLSEKESKASESFLLAFLNLAMCYLK
LREYTKAVECCDKALGLDSANEKGLYRRGEAQLLMNEFESAKGDFEKLVEVNPQNKAARLQISM
CQKKAKEHNERDRRIYANMFKKFAEQDAKEEANKAMGKKTSEGVNTNEKGTDSQAMEEEKPEGH
V

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

76.01

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 — FKBP5

Entrez GeneID[2289](#)**GeneBank Accession#**[BC042605](#)**Protein Accession#**[AAH42605](#)**Gene Name**

FKBP5

Gene Alias

FKBP51, FKBP54, MGC111006, P54, PPlase, Ptg-10

Gene Description

FK506 binding protein 5

Omim ID[602623](#) [608516](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The protein encoded by this gene is a member of the immunophilin protein family, which play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. This encoded protein is a cis-trans prolyl isomerase that binds to the immunosuppressants FK506 and rapamycin. It is thought to mediate calcineurin inhibition. It also interacts functionally with mature hetero-oligomeric progesterone receptor complexes along with the 90 kDa heat shock protein and P23 protein. This gene has been found to have multiple polyadenylation sites. Alternative splicing results in multiple transcript variants.[provided by RefSeq]

Other Designations

51 kDa FK506-binding protein 5|54 kDa progesterone receptor-associated immunophilin|FF1 antigen|FK506-binding protein 5|HSP90-binding immunophilin|OTTHUMP00000016268|T-cell FK506-binding protein|peptidylprolyl cis-trans isomerase|rotamase

Publication Reference

- [Designed hybrid TPR peptide targeting Hsp90 as a novel anticancer agent.](#)

Horibe T, Kohno M, Haramoto M, Ohara K, Kawakami K.

Journal of Translational Medicine 2011 Jan; 9:8.

Application: Func, PI, Recombinant protein

Disease

- [Addison Disease](#)
- [Alcoholism](#)
- [Anxiety Disorders](#)
- [Asthma](#)
- [Bipolar Disorder](#)
- [Depressive Disorder](#)
- [Dysthymic Disorder](#)
- [Genetic Predisposition to Disease](#)
- [Glaucoma](#)
- [HIV Infections](#)
- [Inflammation](#)
- [Mood Disorders](#)
- [Personality Inventory](#)
- [Personality Tests](#)
- [Recurrence](#)
- [Stress](#)
- [Stress Disorders](#)
- [Substance-Related Disorders](#)

- [Tobacco Use Disorder](#)