

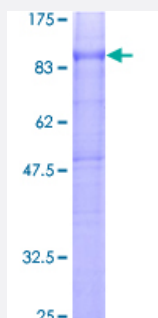
Full-Length

# CD97 (Human) Recombinant Protein (P01)

Catalog # H00000976-P01

Size 25 ug, 10 ug

## Applications



## Specification

### Product Description

Human CD97 full-length ORF ( AAH26690, 1 a.a. - 742 a.a.) recombinant protein with GST-tag at N-terminal.

### Sequence

MGGRVFLAFCVWLTLPGAETQDSRGCARWCPQNSSCVNATACRCNPGFSSSFSEIITPTETCDD  
INECATPSKVSCGKFSDCWNTGSDYDCVCSPGYEPVSGAKTFKNESENTCQDVDECSSGRHQ  
CDSSTVCFNTVGSYSRCRPGWKPRHGIPNNQKDTVCEDMTFSTWTPPPGVHSQTLRFFDKV  
QDLGRDSKTSSAEVTIQNVIKLVDELMEAPGDVEALAPPVRHLIATQLLSNLEDIMRILAKSLPKGP  
FTYISPSNTELTLMIQERGDKNVTMGQSSARMKLNWAVAAGAEDPGPAVAGILSIQNMTLLANAS  
LNLHSHKKQAELEEIYESSIRGVQLRRLSAVNSIFLSHNNTKELNSPILFAFSHLESSDGEAGRDPPA  
KDVMGPGRQELLCAFWKSDSDRGGHWATEGCQVLGSKNGSTTCQCSSLSSFAILMAHYDVED  
WKLTLITRVGLALSFLCLLLCILTFLLVRPIQGSRTTIHLHLCICLFVGSTIFLAGIENEGGQVGLRCRL  
VAGLLHYCFLA AFCWMSLEGLELYFLVVRVFQGGQLSTRWLCIGYGVPLLIVGVSAAIYSKGYGR  
PRYCWLDFEQGFLWSFLGPVTFIILCNAVIFVTTVWKLTKQKFSEINPDMKKLKKARALTITAIAQLFL  
LGCTWVFGFLFIDDRSLVLTIVFTILNCLQGAFLYLLHCLLNKKVREEYRKWACL VAGGSKYSEFT  
STTSGTGHNQTRALRASESGI

### Host

Wheat Germ (in vitro)

### Theoretical MW (kDa)

107.36

### Interspecies Antigen Sequence

Mouse (53); Rat (52)

### 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 — CD97

|                     |                           |
|---------------------|---------------------------|
| Entrez GeneID       | <a href="#">976</a>       |
| GeneBank Accession# | <a href="#">BC026690</a>  |
| Protein Accession#  | <a href="#">AAH26690</a>  |
| Gene Name           | CD97                      |
| Gene Alias          | TM7LN1                    |
| Gene Description    | CD97 molecule             |
| Omim ID             | <a href="#">601211</a>    |
| Gene Ontology       | <a href="#">Hyperlink</a> |

**Gene Summary**

This gene is a member of the EGF-TM7 family of class II seven-span transmembrane (7-TM) molecules, likely encoded by a gene cluster on the short arm of chromosome 19. The encoded product is a glycoprotein that is present on the surface of most activated leukocytes and spans the membrane seven times, which is a defining feature of G protein-coupled receptors. The protein has an extended extracellular region with several N-terminal epidermal growth factor (EGF)-like domains, which mediate binding to its cellular ligand, decay accelerating factor (DAF, CD55), a regulatory protein of the complement cascade. The presence of structural features characteristic of extracellular matrix proteins and transmembrane proteins suggests that this protein is a receptor involved in both cell adhesion and signaling processes early after leukocyte activation. Alternative splicing has been observed for this gene and three variants have been found. [provided by RefSeq]

**Other Designations**

CD97 antigen|leukocyte antigen CD97|seven transmembrane helix receptor|seven-span transmembrane protein|seven-transmembrane, heterodimeric receptor associated with inflammation

**Disease**

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Kidney Failure](#)