

## Product datasheet for **TP303784L**

### **C5R1 (C5AR1) (NM\_001736) Human Recombinant Protein**

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human complement component 5a receptor 1 (C5AR1), 1 mg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone  
or AA Sequence:** >RC203784 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MNSFNYYTPDYGHYDDKDTLDLNTVPDKTSNTRVDPDILALVIFAVWFLVGLGNALVWVTAFAEKRTI  
NAIWFLNLAVADFLSCLALPILFTSIVQHHHWPFGGAACCSILPSLILLNMYASILLLATISADRFLLVFK  
PIWCQNFRGAGLAWIACAVAWGLALLLTIPSFYLRVWVREEYFPPKVLCGVDYSHDKRRERAVAVRLVLG  
FLWPLLTLTICYTFILLRTWSRRATRSTKLKVVAVVASFFIFWLPYQVTGIMMSFLEPSSPTFLLLNK  
LDSLCSVFAYINCCINPIIYVWAGQGFGRLRKSPLLRNVLTEESVRESKSFTRSTVDTMAQKTQAV

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 39.1 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Bioactivity:** Binding assay (PMID: [29981048](https://pubmed.ncbi.nlm.nih.gov/29981048/))

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

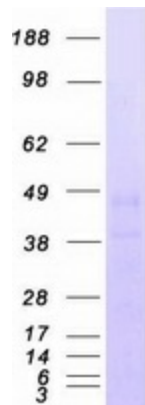
**RefSeq:** [NP\\_001727](https://ncbi.nlm.nih.gov/RefSeq/ accession/NP_001727)



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Locus ID:	728
UniProt ID:	<a href="#">P21730</a>
RefSeq Size:	2342
Cytogenetics:	19q13.32
RefSeq ORF:	1050
Synonyms:	C5A; C5AR; C5R1; CD88
Summary:	Receptor for the chemotactic and inflammatory peptide anaphylatoxin C5a (PubMed:1847994, PubMed:8182049, PubMed:7622471, PubMed:9553099, PubMed:10636859, PubMed:15153520, PubMed:29300009). The ligand interacts with at least two sites on the receptor: a high-affinity site on the extracellular N-terminus, and a second site in the transmembrane region which activates downstream signaling events (PubMed:8182049, PubMed:7622471, PubMed:9553099). Receptor activation stimulates chemotaxis, granule enzyme release, intracellular calcium release and superoxide anion production (PubMed:10636859, PubMed:15153520).[UniProtKB/Swiss-Prot Function]
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Complement and coagulation cascades, Neuroactive ligand-receptor interaction

### Product images:



Coomassie blue staining of purified C5AR1 protein (Cat# [TP303784]). The protein was produced from HEK293T cells transfected with C5AR1 cDNA clone (Cat# [RC203784]) using MegaTran 2.0 (Cat# [TT210002]).