Recombinant Human Complement Component 5a Receptor 1, His-tagged

Cat. No. C5AR1-4908H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant protein is not further processed to remove the additional sequence.
Species	Human
Source	E.coli
Description	C5AR1 complement activation from the a-chain of complement C5. C5AR1 is a potent chemotactic factor for human peripheral blood neutrophils and monocytes, and is believed to play an important role in a number of inflammatory conditions. The 74 amino acid, C5AR1 protein expressed in E. coli with a 6 amino acid, N-terminal His·Tag sequence and 28 amino acid proprietary vector sequence necessary for expression.
Biological Activity	Human recombinant C5AR1 is as active as that of serum derived C5AR1 based on enzyme release assay of myeloperoxidase. The current lot of EDS25;S20; = 1.36 nmolar.
Molecular Weight	74 amino acids
Form	Lyophilized with no additives.
Appearance	Lyophilized protein
Endotoxin Level	<0.1 ng/μg

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Reconstitution	Reconstitute to a concentration of 1.0 mg/ml in ice-cold water containing 2.5 mg/ml BSA. The solution should be aliquoted and immediately stored at -70°C for future use. Frozen/thaw will result in some loss of activity.
Purity	≥95% by SDS-PAGE
Storage	Store at -20°C or -70°C as supplied. Stable for at least 1 year. After reconstition, store at -70°C.
Pathways	Class A/1 (Rhodopsin-like receptors); Complement and Coagulation Cascades; G alpha (i) signalling events; GPCR downstream signaling; GPCR ligand binding; Neuroactive ligand-receptor interaction; Peptide GPCRs; Peptide ligand-binding receptors; Signaling by GPCR; Staphylococcus aureus infection

GENE INFORMATION

Gene Name	C5AR1 complement component 5a receptor 1 [Homo sapiens]
Official Symbol	C5AR1
Synonyms	C5AR1; complement component 5a receptor 1; C5A; C5AR; C5R1; CD88; C5a anaphylatoxin chemotactic receptor; C5a-R; C5a ligand; C5a anaphylatoxin receptor; complement component 5 receptor 1
Gene ID	728
mRNA Refseq	NM_001736
Protein Refseq	NP_001727
MIM	113995

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UniProt ID	P21730
Chromosome Location	19q13.3-q13.4
Function	C5a anaphylatoxin receptor activity; G-protein coupled receptor activity; receptor activity; signal transducer activity

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