

## C5AR2 Protein, Human (Cell-Free, His)

<b>Cat. No.:</b>	HY-P702227
<b>Synonyms:</b>	C5a anaphylatoxin chemotactic receptor 2; Complement component 5a receptor 2; G-protein coupled receptor 77
<b>Species:</b>	Human
<b>Source:</b>	E. coli Cell-free
<b>Accession:</b>	Q9P296 (M1-V337)
<b>Gene ID:</b>	27202
<b>Molecular Weight:</b>	38.9 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> MGNDSVSYEY   GDYSDLSDRP   VDCLDGACLA   IDPLRVAPLP LYAAIFLVGV   PGNAMVAWVA   GKVARRRVGA   TWLLHLAVAD LLCCLSLPIL   AVPIARGGHW   PYGAVGCRAI   PSII LLTMYA SVLLLAALSA   DLCFLALGPA   WWSTVQRACG   VQVACGAAWT LALLLTVPSA   IYRRLHQEHF   PARLQCVVDY   GGSSTENAV TAIRFLFGFL   GPLVAVASCH   SALLCWAARR   CRPLGTAIIV GFFVCWAPYH   LLGLVLTVAA   PNSALLARAL   RAEPLIVGLA LAHSCLNPMI   FLYFGRAQLR   RSLPAACHWA   LRESQGQDES VDSKKSTSHD   LVSEMEV           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	The C5AR2 Protein acts as a receptor for the chemotactic and inflammatory C3a, C4a, and C5a anaphylatoxin peptides, as well as their dearginated forms ASP/C3adesArg, C4adesArg, and C5adesArg, respectively. While it couples weakly to G(i)-
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mediated signaling pathways, C5AR2 interacts with C3, specifically with higher affinity for ASP, the adipogenic hormone. This interaction enhances the phosphorylation and activation of GPR77, leading to the recruitment of ARRB2 to the cell surface and subsequent endocytosis of GRP77. This intricate signaling mechanism highlights the involvement of C5AR2 in mediating responses to anaphylatoxin peptides and ASP, suggesting its role in modulating immune and inflammatory processes.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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