

## Product datasheet for **TP724622**

### Complement C5 (C5) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human C5a
Species:	Human
Expression cDNA Clone or AA Sequence:	T678-R751
Buffer:	Lyophilized from a 0.2 um filtered solution of 2umM Tris-HCl, 30umM NaCl. pH8.0
Note:	Recombinant Human C5a is produced by E.coli. The target gene encoding T678-R751 is expressed.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-5 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Stability:	12 months from date of despatch
Locus ID:	727
UniProt ID:	<a href="#">P01031</a>
Synonyms:	Complement C5; C5a anaphylatoxin; C5a
Summary:	Human Complement 5a (C5a) is a glycoprotein that belongs to a family of structurally and functionally related proteins known as anaphylatoxins. C5a is released from complement component C5, and act as a potent chemotactic factor for human peripheral blood neutrophils and monocytes. C5a is believed to play an important role in a number of inflammatory conditions. C5a can modulate the balance between activating versus inhibitory IgG Fc receptors on leukocytes, thereby enhancing autoimmune response. C5a also binds to a signaling G-protein coupled receptor (C5aR/CD88) and a non-signaling GPCR termed C5L2. Activation of Cd88 results in neutrophil chemotaxis and endothelial cell activation. It also triggers an oxidative burst in macrophages and neutrophils and induces the release of histamine in basophils and mast cells.
Protein Families:	Druggable Genome
Protein Pathways:	Complement and coagulation cascades, Prion diseases, Systemic lupus erythematosus



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