

Product datasheet for **TP727616**

Complement C5 (C5) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Complement Component C5a/C5a
Species:	Human
Expression cDNA Clone or AA Sequence:	Thr678-Arg751
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	Recombinant Human Complement Component C5a is produced by our E.coli expression system and the target gene encoding Thr678-Arg751 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 2-7 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:	P01031
Summary:	Human Complement 5a (C5a) is an enzymatically generated glycoprotein that belongs to a family of structurally and functionally related proteins known as anaphylatoxins. C5a is a 74 amino acid (aa) peptide that is created by the activity of C5a convertase on the C5 α -chain. Human C5a has four α -helices plus three intrachain disulfide bonds that create a triple loop structure. Human C5a is 60% and 54% aa identical to mouse and rat C5a, respectively. C5a binds to a signaling G-protein coupled receptor (C5aR/CD88) and a nonsignaling 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 release of histamine in basophils and mast cells.



[View online »](#)