

## Recombinant human C-C motif chemokine 5

Catalog No: #AP71906



Package Size: #AP71906-1 20ug #AP71906-2 100ug

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## Description

Product Name	Recombinant human C-C motif chemokine 5
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:24-91aaSequence Info:Full Length
Other Names	EoCPEosinophil chemotactic cytokine;SIS-delta;Small-inducible cytokine A5T cell-specific protein P228 ;TCP228T-cell-specific protein RANTES
Accession No.	P13501
Uniprot	P13501
GeneID	6352;
Calculated MW	11.9 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	SPYSSDTTPCCFYAIARPLPRAHIKEYFYTSGKCSNPVVFVTRKNRQVCANPEKKWVREYINSLEMS
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.  Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## Background

Choattractant for blood monocytes, mory T-helper cells and eosinophils. Causes the release of histamine from basophils and activates eosinophils. May activate several chokine receptors including CCR1, CCR3, CCR4 and CCR5. One of the major HIV-suppressive factors produced by CD8+ T-cells. Recombinant RANTES protein induces a dose-dependent inhibition of different strains of HIV-1, HIV-2, and simian immunodeficiency virus (SIV). The processed form RANTES(3-68) acts as a natural chotaxis inhibitor and is a more potent inhibitor of HIV-1-infection. The second processed form RANTES(4-68) exhibits reduced chotactic and HIV-suppressive activity compared with RANTES(1-68) and RANTES(3-68) and is generated by an unidentified enzyme associated with monocytes and neutrophils . May also be an agonist of the G protein-coupled receptor GPR75, stimulating inositol trisphosphate production and calcium mobilization through its activation. Together with GPR75, may play a role in neuron survival through activation of a downstream signaling pathway involving the PI3, Akt and MAP kinases. By activating GPR75 may also play a role in insulin secretion by islet cells

## References

Multiple pathways of amino terminal processing produce two truncated variants of RANTES,CCL5.Lim J.K., Burns J.M., Lu W., DeVico A.L.J. Leukoc. Biol. 78:442-452(2005)Research Topic:Immunology

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Note: This product is for in vitro research use only