Recombinant Human RANTES (CCL5)

Cat No:HR2R1913

For research use only

Overview

Quantity	1.0 ?g
Gene Symbol	CCL5
Gene ID	6352
Accession	P13501
Alternative Name	Regulation upon Activation Normal T cell Express Sequence, CCL5, SIS-delta, C-C motif chemokine 5, EoCP, Eosinophil chemotactic cytokine, Small-inducible cytokine A5, T cell-specific protein P228, TCP228, T-cell-specific protein RANTES, D17S136E, SCYA5
Species	Human
Source	E. coli
Description	RANTES belongs to the family of chemotactic cytokines known as chemokines. RANTES is expressed by an early response gene. The synthesis of RANTES is induced by TNF-alpha and IL-1-alpha. RANTES is chemotactic for T cells, human eosinophils and basophils and plays an active role in recruiting leukocytes into inflammatory sites. RANTES also activates eosinophils to release, for example, eosinophilic cationic protein. It changes the density of eosinophils and makes them hypodense, which is thought to represent a state of generalized cell activation and is associated most often with diseases such as asthma and allergic rhinitis. RANTES also is a potent activator of oxidative metabolism specific for eosinophils. RANTES increases the adherence of monocytes to endothelial cells. It selectively supports the migration of monocytes and T lymphocytes expressing the cell surface markers CD4 and UCHL1. These cells are thought to be pre-stimulated T helper cells with memory T cell functions. RANTES activates human basophils from some select basophil donors and causes the release of histamines.
Functions	Determined by its ability to chemoattract human blood monocytes using a concentration range of 1-10 ng/mL.
Formulation	Recombinant Rantes/CCL5 was lyophilized from a 0.2 ?m filtered PBS solution.
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	8
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method.
Shipping Condition	Ambient Temperature

Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.