Datasheet for ABIN6699635

CCL5 Protein

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Overview

Quantity:	20 µg
Target:	CCL5
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Human RANTES (CCL5) Recombinant Protein
Purification:	RANTES (CCL5) purity was determined to be greater than 98% as determined by HpLC, analysis by UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-pAGE.
Purity:	98,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by the ability to chemoattract human monocytes, neutrophils, THP-1 or primary T cells at 1-8 ng/mL.

Target Details

Target:	CCL5
Alternative Name:	CCL5 (CCL5 Products)
Background:	Synonyms: EoCP, Eosinophil chemotactic cytokine, SIS-delta, Small-inducible cytokine A5, T cell-specific protein P228 (TCP228), T-cell-specific protein RANTES Background: Regulated Upon Activation Normal T cell Express Sequence (RANTES), also called

Target Details

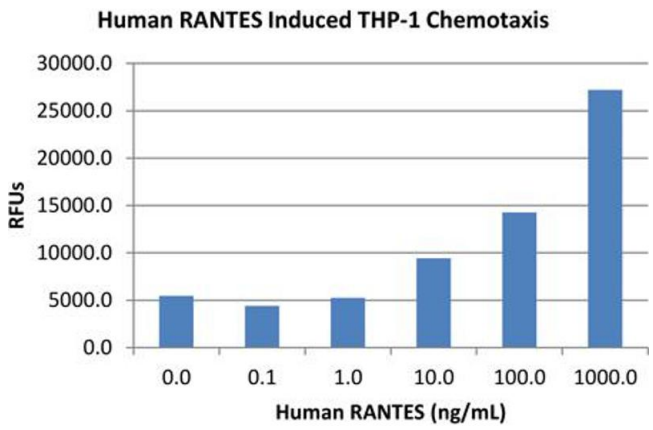
	CCL5, is a chemokine produced by T cells three to five days after activation. RANTES is a promiscuous chemokine that signals through several G protein-coupled receptors, CCR5, CCR3, CCR1 and US28 (a viral receptor encoded by human CMV). The main function of RANTES is to recruit immune cells to the site of inflammation. Recombinant human RANTES is a non-glycosylated protein, containing 68 amino acids, with a molecular weight of 7.8 kDa.
UniProt:	P13501
Pathways:	Cellular Response to Molecule of Bacterial Origin, Regulation of G-Protein Coupled Receptor Protein Signaling, Smooth Muscle Cell Migration

Application Details

Application Notes:	Application Note: RANTES Recombinant Protein has been tested by biologic activity and is suitable as a control for polyclonal or monoclonal anti-RANTES in immunological assays. Other: User Optimized
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 20 µL (20-200 µL)
Buffer:	Buffer: 0.1 % Trifluoroacetic acid Stabilizer: None
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
Expiry Date:	6 months



SDS-PAGE

Image 1. SDS-PAGE of Human RANTES (CCL5) Recombinant Protein Bioactivity of Human RANTES (CCL5) Recombinant Protein. Human THP-1 cells were allowed to migrate to Human RANTES at (0, 0.1, 1, 10, 100 and 1000 ng/mL). After 45 minutes, cells that migrated were counted using a luminescent substrate and displayed on the bar graph above. Significant increases in migration over basal levels were seen in response to Human RANTES detectable starting at 10 ng/mL. These results are similar to results expected from primary human monocytes.