DATA SHEET

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GFH138 Recombinant Human RANTES / CCL5

Description

Regulated upon activation, normal T cell expressed and secreted (RANTES), also known as CCL5, is a chemokine produced by T cells three to five days after T cell activation. RANTES signals through G protein-coupled receptors CCR5, CCR3, CCR1, and through the human CMV-encoded viral receptor US28. RANTES functions to recruit immune cells to inflammatory sites.

Length	68 aa
Molecular Weight	7.9 kDa
Source	E. coli
Accession Number	P13501
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

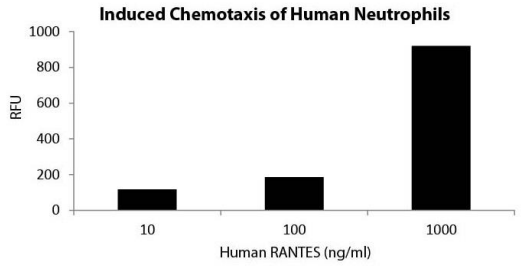
Specifications

Alternative Names	CCL5, TCP228, SIS-delta, SCYA5
Biological Activity	Human RANTES is fully biologically active when compared to standard. The activity is determined by the ability to induce chemotaxis of human neutrophils.
Endotoxin Level	≤1.00 EU/µg as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
AA Sequence	SPYSSDTTPC CFAYIARPLP RAHIKEYFYT SGKCSNPAVV FVTRKNRQVC ANPEKKWVRE YINSLEMS

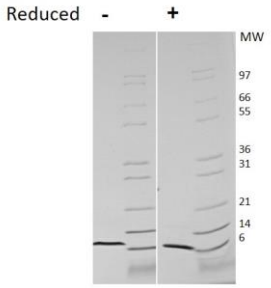
Preparation and Storage

Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

Data



Induced chemotaxis of human neutrophils assay for Human RANTES. Cells that migrated were counted using a luminescent substrate. Migration over basal levels was reported in response to Human RANTES starting at 1000 ng/ml.



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 µg of protein was loaded in each lane. Human RANTES has a predicted Mw of 7.9 kDa.