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Datasheet for ABIN2018332
CCL5 Protein (AA 24-91)

Overview

Quantity:	25 µg
Target:	CCL5
Protein Characteristics:	AA 24-91
Origin:	Human
Source:	HEK-293T Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	The EC50 value of human RANTES/CCL5 on Ca ²⁺ mobilization assay in CHO-K1/G alpha 15/hCCR1 cells (human G alpha 15 and human CCR1 stably expressed in CHO-K1 cells) is less than 0.2 µg/mL.
Purity:	> 98 % as analyzed by SDS-PAGE.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	CCL5
Alternative Name:	RANTES (CCL5) (CCL5 Products)
Background:	Chemokine (C-C motif) ligand 5(CCL5), also known as RANTES (Regulated upon activation, Normal T cell Expressed and presumable Secreted) is a CC-chemokine that can signal through the CCR1, CCR3, CCR5 and US28 (cytomegalovirus receptor) receptors. RANTES is

Target Details

chemotactic for T cells, eosinophils, and basophils, and plays an active role in recruiting leukocytes in inflammatory sites. With the help of specific cytokines (i.e., IL-2 and IFN-gamma) that are released by T cells, RANTES induces the proliferation and activation of certain natural-killer (NK) cells to form CHAK (CC-Chemokine-activated killer) cells. RANTES is also an HIV-suppressive factor released from CD8+ T cells. This chemokine has been localized to chromosome 17 in humans. It has the capability to inhibit certain strains of HIV-1, HIV-2 and simian immunodeficiency virus (SIV). Recombinant human RANTES/CCL5 produced in HEK293 cells is a single polypeptide chain containing 68 amino acids. A fully biologically active molecule, rhRANTES/CCL5 has a molecular mass of 8 kDa analyzed by reducing SDS-PAGE. Synonyms: RANTES/CCL5, Human

Molecular Weight: 8 kDa, observed by reducing SDS-PAGE.

UniProt: [P13501](#)

Pathways: [Cellular Response to Molecule of Bacterial Origin](#), [Regulation of G-Protein Coupled Receptor Protein Signaling](#), [Smooth Muscle Cell Migration](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against PBS.

Storage: -80 °C

Storage Comment: Lyophilized recombinant human RANTES/CCL5 remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, human RANTES/CCL5 should be stable up to 1 week at 4 °C or up to 2 months at -20 °C

Expiry Date: 6 months