

Product datasheet for PH303799

RANTES (CCL5) (NM_002985) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CCL5 MS Standard C13 and N15-labeled recombinant protein (NP_002976)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203799
Predicted MW:	10 kDa
Protein Sequence:	>RC203799 protein sequence Red =Cloning site Green =Tags(s) MKVSAALAVIL IATALCAPASAPYSSDTTPCCFAYIARPLPRAHIKEYFYTSKGKCSNPVVFVTRKNR QVCANPEKKWREYINSLEMS TR TRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_002976
RefSeq Size:	1237
RefSeq ORF:	273
Synonyms:	D17S136E; eoCP; RANTES; SCYA5; SIS-delta; SISd; TCP228
Locus ID:	6352
UniProt ID:	P13501 , D0EI67
Cytogenetics:	17q12



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Summary:

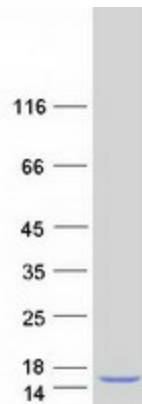
This gene is one of several chemokine genes clustered on the q-arm of chromosome 17. Chemokines form a superfamily of secreted proteins involved in immunoregulatory and inflammatory processes. The superfamily is divided into four subfamilies based on the arrangement of the N-terminal cysteine residues of the mature peptide. This chemokine, a member of the CC subfamily, functions as a chemoattractant for blood monocytes, memory T helper cells and eosinophils. It causes the release of histamine from basophils and activates eosinophils. This cytokine is one of the major HIV-suppressive factors produced by CD8+ cells. It functions as one of the natural ligands for the chemokine receptor chemokine (C-C motif) receptor 5 (CCR5), and it suppresses in vitro replication of the R5 strains of HIV-1, which use CCR5 as a coreceptor. Alternative splicing results in multiple transcript variants that encode different isoforms. [provided by RefSeq, Jul 2013]

Protein Families:

Druggable Genome, Secreted Protein, Transmembrane

Protein Pathways:

Chemokine signaling pathway, Cytokine-cytokine receptor interaction, Cytosolic DNA-sensing pathway, Epithelial cell signaling in Helicobacter pylori infection, NOD-like receptor signaling pathway, Prion diseases, Toll-like receptor signaling pathway

Product images:

Coomassie blue staining of purified CCL5 protein (Cat# [TP303799]). The protein was produced from HEK293T cells transfected with CCL5 cDNA clone (Cat# [RC203799]) using MegaTran 2.0 (Cat# [TT210002]).