

Product Name: CCL5 (Rantes)

Catalog Numbers: CCL5-5ug CCL5-20ug CCL5-50ug CCL5-100ug CCL5-1mg

DESCRIPTION

Source	E. coli derived Accession # P13501 (24-91)
Modification	None
Actual Molecular Mass (Mass Spec)	Mol weight confirmed by mass spec
Predicted Molecular Mass	7.851 kDa
Extinction Coefficient	12570 M ⁻¹ cm ⁻¹
Protein Sequence	SPYSSDTPCCFAYIARPLPRAHIKEYFYTSGKCSNPAVVFVTRKNRQVCANPEKKWVRE YINSLEMS

SPECIFICATIONS

Activity	EC50 = 0.13nM determined by Migration Assay in cells expressing recombinant CCR5
Endotoxin Level	<0.01 EU per 1µg of the protein by the LAL method
Purity	> 97% by SDS PAGE
Formulations	Lyophilized
Carrier Protein	None

PREPARATION AND STORAGE

Reconstitution	Spin tube prior to resuspending. Recommended at 100µg/mL in sterile water
Shipping	Room Temp

Stability and Storage**Avoid repeated freeze-thaw cycles**

- 12 months from date of receipt, -20 to -70 °C as supplied.
- Suggest to use immediately after reconstitution
- 1 month at -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND**Description**

Regulated on Activation, Normal T cell Expressed and Secreted (RANTES) (CCL5) is a proinflammatory chemokine that induces migration and activation of leukocytes, as well as implication in HIV infection. It binds to cell surface receptors CCR1, CCR3, CCR4, and CCR5. Its biological effects on leukocyte activation and HIV infection displays dependence on concentration and on the binding of cell surface glycosaminoglycans.

References:

1. "RANTES: a versatile and controversial chemokine"
Appay V., Rowland-Jones S.L.
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2. "Identification of RANTES, MIP-1, and MIP-1[1] as the major HIV-suppressive factors produced by CD8+T cells"
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3. A human T cell-specific molecule is a member of a new gene family
Schall T.J., Jongstra J., Dyer B.J., Jorgensen J., Clayberger C., Davis M.M., Krensky A.M.
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4. "Engineering the glycosaminoglycan-binding affinity, kinetics and oligomerization behavior of RANTES: a tool for generating chemokine-based glycosaminoglycan antagonists"
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