

6Ckine/CCL21
Catalog # PVGS1466**Specification**

6Ckine/CCL21 - Product Information

Primary Accession [P02775](#)
Species
Rat

Sequence
Ser24-Gln133

Purity
> 95% as analyzed by SDS-PAGE

Endotoxin Level
< 0.2 EU/ µg of protein by gel clotting method

Biological Activity
The EC₅₀ value of Rat 6Ckine/CCL21 on Ca²⁺ mobilization assay in CHO-K1/G15/h_CCR7 pool (human G15 and human CCR7 stably expressed in CHO-K1 cells) is less than 1.0 µg/ml.

Expression System
CHO

Formulation **Lyophilized from a 0.2 µm filtered solution in PBS.**

Reconstitution
It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH₂O or PBS up to 100 µg/ml.

Storage & Stability
Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

6Ckine/CCL21 - Additional Information

Gene ID 5473

Other Names
Platelet basic protein, PBP, C-X-C motif chemokine 7, Leukocyte-derived growth factor, LDGF, Macrophage-derived growth factor, MDGF, Small-inducible cytokine B7, Connective tissue-activating peptide III, CTAP-III, LA-PF4, Low-affinity platelet factor IV, TC-2, Connective tissue-activating peptide III(1-81), CTAP-III(1-81), Beta-thromboglobulin, Beta-TG, Neutrophil-activating peptide 2(74), NAP-2(74), Neutrophil-activating peptide 2(73), NAP-2(73), Neutrophil-activating peptide 2, NAP-2, TC-1, Neutrophil-activating peptide 2(1-66), NAP-2(1-66),

Neutrophil-activating peptide 2(1-63), NAP-2(1-63), PPBP, CTAP3, CXCL7, SCYB7, TGB1, THBGB1

Target Background

Chemokine (C-C motif) ligand 21 (CCL21) is a small cytokine belonging to the CC chemokine family. This chemokine is also known as 6Ckine, exodus-2, and secondary lymphoid-tissue chemokine (SLC). CCL21 contains four conserved cysteines characteristic of β chemokines plus two additional cysteines in an unusually long carboxyl-terminal domain. It is expressed in lymphatic endothelial cells and the spleen. CCL21 chemoattracts T and B lymphocytes and inhibits hematopoiesis. It can signal through the CCR7 receptor.

6Ckine/CCL21 - Protein Information

Name PPBP

Synonyms CTAP3, CXCL7, SCYB7, TGB1, THBGB1

Function

LA-PF4 stimulates DNA synthesis, mitosis, glycolysis, intracellular cAMP accumulation, prostaglandin E2 secretion, and synthesis of hyaluronic acid and sulfated glycosaminoglycan. It also stimulates the formation and secretion of plasminogen activator by human synovial cells. NAP-2 is a ligand for CXCR1 and CXCR2, and NAP-2, NAP-2(73), NAP-2(74), NAP-2(1-66), and most potent NAP-2(1-63) are chemoattractants and activators for neutrophils. TC-1 and TC-2 are antibacterial proteins, in vitro released from activated platelet alpha-granules. CTAP-III(1-81) is more potent than CTAP-III desensitize chemokine-induced neutrophil activation.

Cellular Location

Secreted.

6Ckine/CCL21 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

6Ckine/CCL21 - Images