

Recombinant Human Exodus-2/CCL21 (Human Exodus-2/CCL21)

Product Information

Product Name	Cat#	Size
	90966ES08	5 µg
Recombinant Human Exodus-2/CCL21 (Human Exodus-2/CCL21)	90966ES60	100 µg
	90966ES76	500 µg

Product Description

CCL21, also known as 6Ckine, TCA-4, SLC, Exodus-2, and A21, is a 12 kDa homeostatic chemokine. Some of the chemokines are considered pro-inflammatory which can be induced to recruit cells of the immune system to a site of infection during an immune response, while others are considered homeostatic and are implied in controlling the migration of cells during normal processes of tissue maintenance and development. CCL21 takes its name 6Ckine for its constitutively six conserved cysteine residues but not four cysteines typical to chemokines. CCL21 has function in inducing vigorous calcium migrations and chemotactic responses. During chronic inflammation or tissue damage, CCL21 is up-regulated on local vascular endothelial cells, macrophages, T cells, and neurons. In these settings, it promotes fibrosis, inflammatory cytokine production, and neuropathic pain. The soluble chemokine is elevated in rheumatoid arthritis synovial fluid and in the serum of coronary artery disease patients. CCL21 has been shown to exert either angiogenic or angiostatic effects. These effects, in combination with the ability of CCL21 to attract immune suppressor cells (Treg and MDSC) to a tumor site can have positive or negative effects on tumor progression.

Product Properties

Synonyms	6Ckine, Beta-chemokine Exodus-2, SLC
Accession	O00585
GeneID	6366
Source	E.coli-derived Human Exodus-2/CCL21, Ser24-Pro134.
Molecular Weight	Approximately 12.2 kDa.
AA Sequence	SDGGAQDCCL KYSQRKIPAK VVRSYRKQEP SLGCSIPAIL FLPRKRSQAE LCADPKELWV QQLMQHLDKT PSPQKPAQGC RKDRGASKTG KKGKGSKGCK RTERSQTPKG P
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 97% by SDS-PAGE and HPLC analyses.
Biological Activity	The biological activity determined by a chemotaxis bioassay using human lymphocytes is in a concentration range of 10-100 ng/mL. Fully biologically active when compared to standard.
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 150 mM NaCl. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
Reconstitution	Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only.