HB220418

Recombinant Human Cuteaneous T-cell Attracting Chemokine/CCL27 (Human CTACK/CCL27)

Product Information

Product Name	Cat#	Size
Recombinant Human Cuteaneous T-cell Attracting Chemokine/CCL27 (Human CTACK/CCL27)	90972ES08	5 μg
	90972ES60	100 μg
	90972ES76	500 μg

Product Description

CCL27, also known as CTACK (cutaneous T cell-attracting chemokine), ALP, ILC, and ESkine, is a member of the CC family of chemokines. Mature human CCL27 is an 88 amino acid (aa) protein that shares 57% aa sequence identity with mouse and rat CCL27. It shares 11% - 35% aa sequence identity with other human CC chemokines. An alternately spliced form of mouse CCL27, known as PESKY, is localized to the nucleus and promotes cellular migration. CCL27 is constitutively expressed by keratinocytes and is upregulated by inflammatory stimuli and in wounded skin. CCL27 binds the chemokine receptor CCR10, glycosaminoglycans in the extracellular matrix, sulfated tyrosine residues on PSGL-1, and determinants on the surface of fibroblasts and endothelial cells . CCL27 cooperates with CCL17/TARC in inducing the migration of cutaneous lymphocyte antigen (CLA) positive memory T cells to the skin during inflammation. Endothelial cell-bound CCL27 can mediate the adhesion of those cells to CLA+ T cells. CCL27 also induces the migration of keratinocyte precursors from bone marrow to the skin, thereby promoting wound healing. In humans, serum CCL27 levels are elevated and correlate with disease severity in atopic dermatitis, psoriasis vulgaris, and mycosis fungoides.

Product Properties

Synonyms	CTACK
Accession	Q9Y4X3
GeneID	10850
Source	E.coli-derived Human B cell Activating Factor Rececptor protein,Phe25-Gly112.
Molecular Weight	Approximately 10.1 kDa.
AA Sequence	FLLPPSTACC TQLYRKPLSD KLLRKVIQVE LQEADGDCHL QAFVLHLAQR SICIHPQNPS LSQWFEHQER KLHGTLPKLN FGMLRKMG
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 96% by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using CCR10 transfected BaF3 cells is in a concentration range of 10-100 ng/mL
Endotoxin	<0.1 EU/μg of protein as determined by LAL method.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. 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℃ to -80℃ 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.