

CCL27 Protein, Human, Recombinant (His)

General Information

Synonyms:	SCYA27;CTAK;ESKINE;ALP;PESKY;ILC;chemokine (C-C motif) ligand 27;CCL27;CTACK
Protein Construction:	A DNA sequence encoding the human CCL27 (Q9Y4X3) (Phe25-Gly112) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His
Species:	Human
Expression Host:	E. coli
Accession:	Q9Y4X3
Molecular Weight:	12.2 kDa (predicted); 14 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing 30% acetonitrile, 0.1% TFA. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:
It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:
In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

CCL27, also known as CTACK, is a small cytokine belonging to the CC chemokine family. Members of this family are proteins characterized by two adjacent cysteines. CCL27 is chemotactic for skin-associated memory T lymphocytes. CCL27 may also play a role in mediating homing of lymphocytes to cutaneous sites. CCL27 plays a pivotal role in establishing the inflammatory infiltrate characteristic for common inflammatory skin diseases. Through binding to the chemokine receptor 1 (CCR1), CCL27 mediates inflammation by promoting lymphocyte migration into the skin.

Reference

Morales. et al., 1999, Proc Natl Acad Sci. 96: 14470-5.

Homey. et al., 2002, J Immunol. 164: 3465-70.

Ishikawa-Mochizuki. et al., 1999, FEBS Lett. 460: 544-8.

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