Recombinant Murine Cuteaneous T-cell Attracting Chemokine/CCL27 (rMuCTACK/CCL27)

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	224-27
Source:	Escherichia coli.
Molecular Weight:	Approximately 10.9 kDa, a single, non-glycosylated polypeptide chain containing 95 amino acids.
Quantity:	5μg /20μg /1000μg
AA Sequence:	LPLPSSTSCC TQLYRQPLPS RLLRRIVHME LQEADGDCHL QAVVLHLARR SVCVHPQNRS LARWLERQGK RLQGTVPSLN LVLQKKMYSN PQQQN
Purity:	> 98 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human peripheral blood lymphocytes is in a concentration range of 10-100 ng/ml.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 μm filtered concentrated solution in 2 × PBS, pH 7.4, with 5% trehalose.
Endotoxin:	Less than 1 EU/μg of rMuCTACK/CCL27 as determined by LAL method.
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:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. **NOT FOR HUMAN USE**.

Murine Cuteaneous T-cell Attracting Chemokine/CCL27

CCL27, also named IL-11 R-alpha-locus chemokine (ILC), skinkine, eskine and cutaneous T-cell-attracting chemokine (CTACK), is a small cytokine belonging to the CC chemokine family. CCL27 is expressed in numerous tissues, including gonads, thymus, placenta and skin and it elicits its chemotactic effects by binding to the chemokine receptor CCR10. CCL27 can attract skin-associated memory T-lymphocytes. Studies showed it may play a role in mediating homing of lymphocytes to cutaneous sites and cell migration during embryogenesis. Mature mouse CCL27 is a 95 amino acid (a.a.) protein that shares 57 % a.a. and 87 % a.a. sequence identity with human and rat CCL27, respectively. It shares 18 %~31 % a.a. sequence identity with other mouse CC chemokines.

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