

Overview

Synonyms	C-C motif chemokine 25, Small-inducible cytokine A25, Thymus-expressed chemokine, Chemokine TECK, CCL25, SCYA25, TECK, Ckb15, MGC150327
Description	Chemokine (C-C motif) ligand 25 (CCL25) is a small cytokine belonging to the CC chemokine family that is also known as TECK (Thymus-Expressed Chemokine). It plays a role in the development of T cells and has been shown to be chemotactic for activated macrophages, dendritic cells and thymocytes. Mouse CCL25 cDNA encodes a 144 amino acid residue precursor protein with a 23 amino acid residue signal peptide that is cleaved to yield a 121 residue mature protein. The gene for mouse CCL25 has been mapped to chromosome 8 rather than chromosome 11 where many mouse CC chemokines are clustered. Mouse CCL25 shares 49% amino acid sequence identity to with human CCL25. Recombinant Mouse TECK/CCL25 produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 122 amino acids. A fully biologically active molecule, rmTECK/CCL25 has a molecular mass of 14.3 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Accession No	O35903
Source	<i>E. coli</i>
Biological Activity	The EC ₅₀ value of Mouse TECK/CCL25 on Ca ²⁺ mobilization assay in CHO-K1/G±15/mCCR9 cells (human G±15 and mouse CCR9 stably expressed in CHO-K1 cells) is less than 5 µg/ml.
Sequence	MQGAFEDCCL GYQHRIKWNV LRHARNYHQQ EVSGSCNLRA VRFYFRQKVV CGNPEDMNVK RAMRILTARK RLVHWKSASD SQTERKKSNH MKSIVENPNS TSVRSATLGH PRMVMMPRKT NN

Properties

Measured Molecular Weight	14.3 kDa, observed by reducing SDS-PAGE.
Purity	> 98% as analyzed by SDS-PAGE.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant Mouse TECK/CCL25 , remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Mouse TECK/CCL25 should be stable 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.
Note	For research use only

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