# Technical Data Sheet

## Recombinant Murine Thymus Expressed Chemokine/CCL25 (rMu TECK/CCL25)

*Murine Thymus Expressed Chemokine /CCL25*

Thymus Expressed Chemokine (TECK)/CCL25 is a novel CC chemokine that is distantly related (approximately 20% amino acid sequence identity) to other CC chemokines. Mouse CCL25 cDNA has also been cloned and shown to encode a 144 aa protein that exhibits 49% aa sequence identity to human CCL25. The expresssion of human and mouse CCL25 was shown to be highly restricted to the thymus and small intestine. Although dendritic cells have been demonstrated to be the source of CCL25 production in the thymus, dendritic cells derived from bone marrow do not express CCL25. Recombinant human and mouse CCL25 have been shown to be chemotactic for activated macrophages, dendritic cells and thymocytes. CCL25 signals through the CCR9 receptor.

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| Catalog Number: | RC335-36 |
| Source: | Escherichia coli. |
| Molecular Weight: | Approximately 14.1 kDa, a single, non-glycosylated polypeptide chain containing 121 amino acids. |
| Quantity: | 5μg/20μg/1000μg |
| AA Sequence: | QGAFEDCCLG YQHRIKWNVL RHARNYHQQE VSGSCNLRAV RFYFRQKVVC GNPEDMNVKR AIRILTARKR LVHWKSASDS QTERKKSNHM KSKVENPNST SVRSATLGHP RMVMMPRKTN N |
| Purity: | >95% by SDS-PAGE and HPLC analyses. |
| Biological Activity: | Fully biologically active when compared to standard. The $ED_{50}$ determined by a chemotaxis bioassay using human CCR9 transfected BaF3 murine proB cells is less than 500 ng/ml, corresponding to a specific activity of $>2\times10^3$ IU/mg. |
| Physical Appearance: | Sterile Filtered White lyophilized (freeze-dried) powder. |
| Formulation: | Lyophilized from a 0.2μm filtered concentrated solution in 20mM PB, pH 7.4, 150mM NaCl. |
| Endotoxin: | Less than 1EU/μg of rMuTECK/CCL25 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℃. Further dilutions should be made in appropriate buffered solutions. |

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| Storage: | This lyophilized preparation is stable for several weeks at 2-8℃, but should be kept at -20℃ for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8℃. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20℃ to -70℃. Avoid repeated freeze/thaw cycles. |
| Usage: | This material is offered by Bio Basic Canada Inc. for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. |