

Recombinant Murine SF-20/IL-25

Information

Gene ID	28106
Accession #	Q9CPT4
Alternate Names	IL-17E, IL-25
Source	Escherichia coli.
M.Wt	Approximately 15.8 kDa, a single non-glycosylated polypeptide chain containing 143 amino acids.
AA Sequence	MVSEPTTVPF DVRPGGVVHS FSQDVGPNGK FTCTFTYASQ GGTNEQWQMS LGTSEDSQHF TCTIWRPQGK SYLYFTQFKA ELRGAEIEYA MAYSKAAFER ESDVPLKSEE FEVTKTAVSH RPGAFKAELS KLVIVAKAAR SEL
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
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
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.
Biological Activity	Data Not Available.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	10µg	100µg	500µg
Recombinant Murine SF-20/IL-25	10µg	100µg	500µg

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

Quality Control

Purity	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rMuSF-20 as determined by LAL method.

Description

SF-20 or IL-25 belongs to the IL-17 family and is also named IL-17E. It is encoded by IL-25 (IL-17E) gene located on chromosome 14 in murine and secreted by several tissues at low levels, for instance, brain, kidney, lung, prostate, testis, spinal cord, adrenal gland, and trachea. This cytokine is initially identified as a product of bone marrow-derived stromal cells and plays an important role in proliferation of lymphoid cells and is considered an interleukin. It rest CD8+ and CD19+ cells and activated CD8+ T cells and has been shown to bind to the surface of cells expressing the receptor TSA-1 (Thymic shared Ag-1). Additionally, it induces the production of other cytokines, including IL-4, IL-5 and IL-13 in multiple tissues, which stimulate the expansion of eosinophils.

Reference

1. Tulin EE, Onoda N, Nakata Y, et al. 2003. J Immunol, 170: 1593
2. Terashima A, Watarai H, Inoue S, et al. 2008. J Exp Med, 205: 2727-33.

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