

Product Data Sheet

Recombinant Mouse IL-25 (IL-17E) (carrier-free)

Catalog # / Size: 579802 / 10 µg
579804 / 25 µg
579806 / 100 µg

Source: Mouse IL-25, amino acids Val17-Ala169 (Accession # NM_080729) was expressed in *E. coli*.

Molecular Mass: The 153 amino acid recombinant protein has a predicted molecular mass of 17,606 Da. This protein exists as a disulfide-linked homodimer. The DTT-reduced protein migrates at approximately 18 kD by SDS-PAGE. The non-reduced protein migrates as a homodimer, at approximately 33 kD by SDS-PAGE.

Purity: Purity is >98%, as determined by Coomassie stained SDS-PAGE.

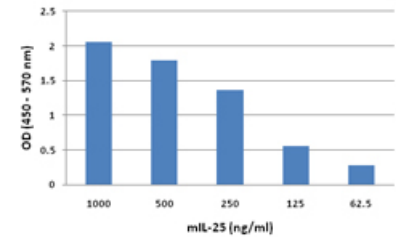
Endotoxin Level: Endotoxin level is <0.1 EU/µg (<0.01 ng/µg) protein as determined by the LAL method.

Activity: Mouse IL-25 binds to recombinant mouse IL17BR/Fc Chimera in a functional ELISA.

Preparation: 10-100 µg sizes are bottled at 200 µg/mL. 500 µg sizes and larger are bottled at the concentration indicated on the vial.

Concentration: 0.22 µm filtered protein solution is in 20 mM NaHPO₄ pH 6.0, 0.5M NaCl

Storage: Unopened vial can be stored at -20°C for six months or at -70°C for one year. For maximum results, quick spin vial prior to opening. Stock solutions should be prepared at no less than 10 µg/mL in buffer containing carrier protein such as 1% BSA or HSA or 10% FBS. Stock solution can be stored up to 3 months from -20°C to -70°C under sterile conditions. **Avoid repeated freeze/thaw cycles.**



Mouse IL-25 binding to recombinant IL17BR/Fc Chimera detected by functional ELISA

Applications:

Applications: Bioassay

Description: IL-25 (also known as IL-17E) is a member of the IL-17 family, which includes IL-17A, IL-17B, IL-17C, IL-17F and IL-17A/F. Primary sequence homology differs between family members, with hIL-17 and hIL-17F having the highest homology (44%), while hIL-17 and hIL-25 have the lowest (15%). IL-25 induces elevated gene expression of IL-4, IL-5 and IL-13 in multiple tissues and results in T helper 2 (T_H2)-type immune responses (increased serum IgE levels) and pathologic changes in the lungs and digestive tract with eosinophilic infiltrates, increased mucus production, epithelial cell hyperplasia and overall amplified allergic inflammation. IL-25 shares the receptor IL-17RB with IL-17B, although it binds with much higher affinity than IL-17B.

- Antigen References:**
- Hurst SD, *et al.* 2002. *J. Immunol.* 169:443.
 - Ikeda K, *et al.* 2003. *Blood* 101:3594.
 - Kang CM, *et al.* 2005. *Am. J. Resp. Cell. Mol.* 33:290.
 - Kleinschek ME, *et al.* 2007. *J. Exp. Med.* 204:161.
 - Terashima A, *et al.* 2008. *J. Exp. Med.* 205:2727.
 - Angkasekwinai P, *et al.* 2010. *Nat. Immunol.* 11:250.



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