

Human IL25 Protein (Fc Tag)

Catalog Number: 10096-H01H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

IL25, IL-17E, IL-25, IL17E

Protein Construction:

A DNA sequence encoding the mature form of human IL25 (Tyr 33-Gly177) (NP_073626.1) was fused with the Fc region of human IgG1 at the N-terminus via a polypeptide linker.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized human IL17BR-His (Cat:13091-H08H) at 10 µg/ml (100 µl/well) can bind human Fc-IL25 (Cat:10096-H01H), The EC₅₀ of human Fc-IL25 (Cat:10096-H01H) is 1.7-4.2 µg/ml.

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Glu 20

Molecular Mass:

The recombinant human IL25/Fc chimera is a disulfide-linked homodimeric protein. The reduced monomer consists of 403 amino acids and predicts a molecular mass of 45 KDa. As a result of glycosylation, the apparent molecular mass of rh IL25/Fc monomer is approximately 50-60 KDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

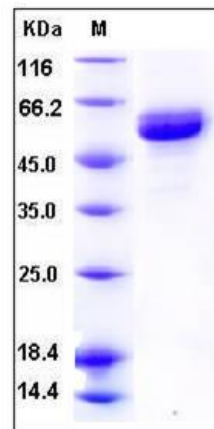
Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

SDS-PAGE:



Reconstitution:

Detailed reconstitution instructions are sent along with the products.

Protein Description

Interleukin 25 (IL25), also referred to as IL17E, is a distinct member of the IL17 cytokine family comprised of at least six members sharing a conserved cysteine-knot structure but divergent at the N-terminus. IL25 is a glycoprotein secreted as dimers by innate effector eosinophils and basophils, and present at very low levels in various peripheral tissues. IL25, together with IL17B, are ligands for the cytokine receptor IL17BR, and the cross-linking induces NF-κB activation and production of the proinflammatory chemokine IL-8, as well as ERK, JNK, and p38 activation. Overexpression of IL25 gene in transgenic mice suggested that this cytokine can regulate hematopoietic and immune functions, and additionally is identified as a proinflammatory cytokine favoring Th2-type immune responses possibly by enhancing the maintenance and functions of adaptive Th2 memory cells.

References

1. Lee, J. et al., 2001, J. Biol. Chem. 276: 1660-1664.
2. Kim, M.R. et al., 2002, Blood. 100: 2330-2340.
3. Wang, Y.H. et al., 2007, J. Exp. Med. 204: 1837-1847.
4. Maezawa, Y. et al., 2006, J. Immunol. 176: 1013-1018.

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Fax :+86-10-51029969 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>