Recombinant Human IL36G/IL1F9 Protein

Catalog No. PKSH032644

Note: Centrifuge before opening to ensure complete recovery of vial contents.

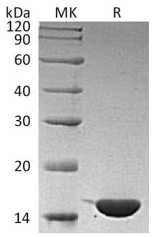
Description

Synonyms	Interleukin-36 gamma;IL36G;IL-1-related protein 2;IL-1RP2;IL-1 epsilon;IL-1F9;Interleukin-1 homolog 1;IL-1H1;IL1E;IL1F9;IL1H1;IL1RP2
Species	Human
Expression Host	E.coli
Sequence	Ser18-Asp169
Accession	Q9NZH8
Calculated Molecular Weight	18.0 kDa
Observed molecular weight	19 kDa
Tag	C-His
Bioactivity	Measure by its ability to induce IL-8 secretion in A431 cells.The ED_{50} for this effect is < 5 ng/mL.

Properties

Purity	> 98 % as determined by reducing SDS-PAGE.
Endotoxin	< 0.1 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS,pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 98 % as determined by reducing SDS-PAGE.

Background

Interleukin-36 gamma (IL-36γ) is a member of the interleukin 1 cytokine family that includes three closely related genes, IL-36α, β, and γ, formerly known as IL-1F6, F8, and F9 respectively. IL-36α has been detected in both neuronal and synovial tissue, whereas IL-36β and IL-36γ are expressed in both cutaneous and mucosal epithelial cells, including the respiratory tract. IL-36β and IL-36γ stimulate proliferation, maturation and/or cytokine expression by innate immune cells (such as keratinocytes and dendritic cells), and adaptive immune cells (neutrophils and T-cells) in both humans and mice. The activity of IL-36α is mediated by interleukin 1 receptor-like 2 (IL1RL2/IL1R-rp2), and is specifically inhibited by interleukin 1 family, member 5 (IL1F5/IL-1 delta). IL-36γ plays an important role in communicating the cell death to surrounding cells.

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