

Interleukin 28B (IL28B) Active Protein | IL28B active protein

Active Interleukin 28B (IL28B)

CATALOG #
AAA149254

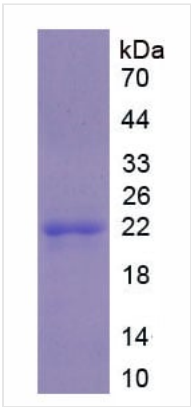
APPLICATIONS
Activity Assay, Cell Culture

PRODUCT SYNONYMS

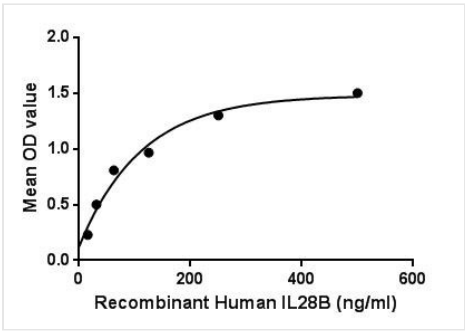
Interleukin 28B (IL28B); Active Interleukin 28B (IL28B); IFNL3; Interferon; Lambda 3; Cytokine Zcyto22; IL28B active protein

PRODUCT SPECIFICATIONS

Purity/Purification	> 95%
Form/Format	Freeze-Dried Powder; 20mM Tris, 150mM NaCl, pH8.0, Containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Sequence Positions	Val22~Val196
Applicable Applications for IL28B active protein	Activity Assay, Cell Culture
Species	Human
Tag	N-terminal His-Tag
Isoelectric Point	9
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles. The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



SDS-PAGE



Activity
Figure. The binding activity of IL28B with IL10Rb. Interleukin 28B (IL28B) is a cytokine distantly related to type I interferons and the IL-10 family. It has function on antiviral, antitumour and immunomodulatory activities. IL28B also plays a critical role in the antiviral host defense, predominantly in the epithelial tissues and acts as a ligand for the heterodimeric class II cytokine receptor composed of IL10RB and IFNLR1, and receptor engagement leads to the activation of the JAK/STAT signaling pathway resulting in the expression of IFN-stimulated genes (ISG), which mediate the antiviral state. Besides, Interleukin 10 Receptor Beta (IL10Rb) has been identified as an interactor of IL28B, thus a binding ELISA assay was conducted to detect the interaction of recombinant human IL28B and recombinant human IL10Rb. Briefly, IL28B were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to IL10Rb-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-IL28B pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of IL28B and IL10Rb was shown in Figure 1, and this effect was in a dose dependent manner.

ADDITIONAL INFORMATION

Product Categories/Family for IL28B active protein	Cytokine; Signal transduction; Infection immunity
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NCBI AND UNIPROT INFORMATION

Molecular Weight	Predicted MW: 21.6kDa Accurate MW: 22kDa
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/active-protein/interleukin-28b-il28b/149254>