

## HumanKine® IL-28B (Recombinant Human)



Animal Component-Free

Human cell expressed

Tag-Free

Endotoxin Free

### Product Description

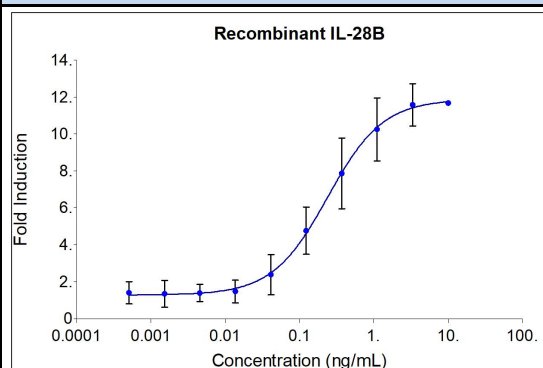
Animal-free Recombinant Human IL-28B (IFN-lambda 3) is expressed in human 293 cells with an apparent molecular mass of 24 kDa. This cytokine is produced in a serum-free, chemically defined media. Production in human 293 cells offers authentic human post-translational modification which contributes to stability in cell growth media and other applications. The purity is greater than 95%.

|                   |                                                                                                                                                                                                                                |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alternative Names | Cytokine Zcyto22, IFN lambda 3, IFN lambda 4, IFNL3, IFNL4, IFN-lambda 3, IFN-lambda 4, IL 28B, IL 28C, IL28, IL-28, IL28B, IL-28B, IL28C, Interferon lambda 3, Interferon lambda 4, Interleukin 28B, Interleukin 28C, ZCYTO22 |
| Source            | Human Embryonic Kidney cells (HEK293). HEK293-derived IL-28B protein                                                                                                                                                           |

### Specifications

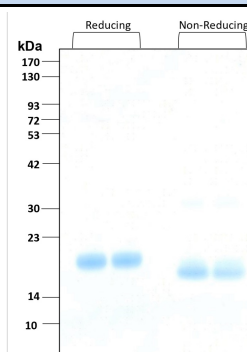
| Test           | Method                                                                                      | Specification                                                 |
|----------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Activity       | Dose-dependent induction of alkaline phosphatase production in a HEK293 reporter cell line. | 0.07-0.35 ng/mL                                               |
| Molecular Mass | SDS-PAGE                                                                                    | 21 kDa reduced, 19 kDa non-reduced, monomer, non-glycosylated |
| Purity         | SDS-PAGE                                                                                    | >95%                                                          |
| Endotoxin      | LAL                                                                                         | <1 EU/ µg                                                     |

### Activity Data



Recombinant human IL-28B (HZ-1245) stimulates dose-dependent induction of alkaline phosphatase production in a HEK293 reporter cell line. Alkaline phosphatase production was assessed using pNPP as a chromogenic substrate. The EC<sub>50</sub> was determined using a 4-parameter non-linear regression model. The EC<sub>50</sub> value range is 0.07-0.35 ng/mL.

### SDS-PAGE



| Preparation          |                                                                                                                                                                                                                                        |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Shipping Temperature | ambient temperature                                                                                                                                                                                                                    |
| Formulation          | 1x PBS, See Certificate of Analysis for details                                                                                                                                                                                        |
| Reconstitution       | Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein to 0.2 mg/mL in sterile 1x PBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to mix. |

| Stability and Storage              | Product Form              | Temperature Conditions | Storage Time<br>(From Date of Receipt) |
|------------------------------------|---------------------------|------------------------|----------------------------------------|
|                                    | Lyophilized               | -20°C to -80°C         | Until Expiry Date                      |
|                                    | Lyophilized               | Room Temperature       | 2 weeks                                |
|                                    | Reconstituted as per CofA | -20°C to -80°C         | 6 months                               |
|                                    | Reconstituted as per CofA | 4°C                    | 1 week                                 |
| Avoid repeated freeze-thaw cycles. |                           |                        |                                        |

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