

DESCRIPTION

Source Chinese Hamster Ovary cell line, CHO-derived
Gln21-Phe180
Accession # Q9UHF5

N-terminal Sequence Analysis Gln21, Ser51 & Gly102
Gln21 predicted, sequencing might be blocked

Structure / Form Noncovalently-linked homodimer

Predicted Molecular Mass 18 kDa (monomer)

SPECIFICATIONS

SDS-PAGE 20-25 kDa, reducing conditions

Activity Measured by its ability to induce IL-8 secretion by HepG2 human hepatocellular carcinoma cells. Tang, Y. *et al.* (2011) Clin. Exp. Immunol. **166**:281.
The ED₅₀ for this effect is 0.4-2 µg/mL.

Endotoxin Level <0.10 EU per 1 µg of the protein by the LAL method.

Purity >95%, by SDS-PAGE under reducing conditions and visualized by silver stain.

Formulation Lyophilized from a 0.2 µm filtered solution in Sodium Phosphate and NaCl. See Certificate of Analysis for details.

PREPARATION AND STORAGE

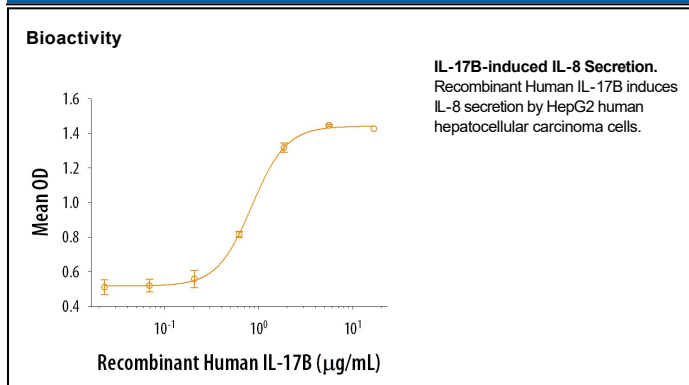
Reconstitution Reconstitute at 100 µg/mL in PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

DATA



BACKGROUND

Interleukin-17B (IL-17B), is an approximately 20 kDa glycosylated cytokine that plays a role in inflammation and bone growth. The six IL-17 cytokines (IL-17A-F) are encoded by separate genes but adopt a conserved cystine knot fold (1, 2). Mature human IL-17B shares 90% and 91% amino acid sequence identity with mouse and rat IL-17B, respectively (3, 4). IL-17B binds to IL-17 RB and induces the production of inflammatory cytokines and the infiltration of inflammatory immune cells (3, 4). IL-17B is expressed in the central nervous system, testis, ovary, stomach, pancreas, and small intestine (3-5). In the skeletal system, IL-17B is expressed in bone collars surrounding primary ossification centers as well as in epiphyseal plate chondrocytes during development and after bone fracture (6, 7). IL-17B is up-regulated in arthritic cartilage where it exacerbates the severity of disease (8). It is also up-regulated in aggressive breast cancer cell lines, and its exaggerated signaling through IL-17 RB promotes tumorigenicity (9). It inhibits the adhesion of vascular endothelial cells to Matrigel and enhances their migration (10).

References:

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