

DESCRIPTION

Source	Human embryonic kidney cell, HEK293-derived		
	Human IL-17 RC Isoform 1 (Leu21-His465) Accession # NP_703190.1	IEGRMD	Human IgG ₁ (Pro100-Lys330)
	N-terminus		C-terminus

N-terminal Sequence Analysis Leu21

Structure / Form Disulfide-linked homodimer

Predicted Molecular Mass 76 kDa

SPECIFICATIONS

SDS-PAGE 95-113 kDa, reducing conditions

Activity Measured by its binding ability in a functional ELISA.
When Recombinant Human IL-17RC Isoform 1 Fc Chimera (Catalog # 9284-IL) is coated at 0.5 µg/mL, Recombinant Human IL-17/IL-17A (Catalog # 7955-IL) binds with an ED₅₀ = 0.1-0.6 ng/mL.

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

Purity >95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.

Formulation Lyophilized from a 0.2 µm filtered solution in PBS. See Certificate of Analysis for details.

PREPARATION AND STORAGE

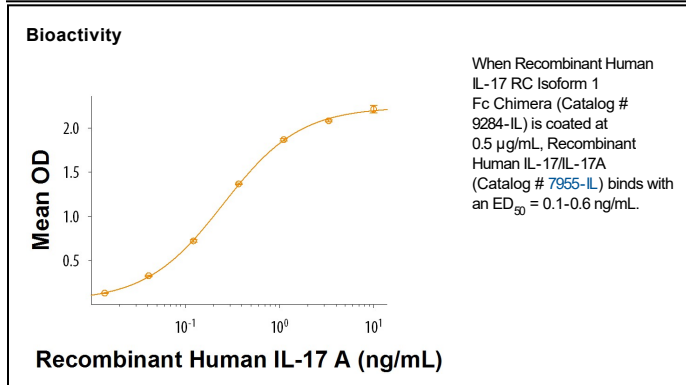
Reconstitution Reconstitute at 500 µg/mL in PBS.

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

IL-17 receptor C (IL-17RC; also known as IL-17RL and IL-17Rhom) is an 85-110 kDa member of the IL-17 receptor family. IL-17 plays a key role in the development of autoimmunity and inflammation (1, 2). Human IL-17 RC is a type I transmembrane glycoprotein that is expressed on neutrophils, endothelial cells, chondrocytes and osteoblasts, breast and prostatic epithelium, fibroblasts, renal tubular epithelium, and skeletal muscle cells (3-5). Mature human IL-17 RC consists of a 518 amino acid (aa) extracellular domain (ECD), a 21 aa transmembrane segment, and a 232 aa cytoplasmic region (6). It is estimated that there are over 90 alternative splice forms, with transmembrane-containing isoforms predominating (4, 7). This recombinant protein corresponds to IL-17 RC isoform 1, the canonical form. Within the ECD, IL-17 RC isoform 1 shares 69% aa sequence identity with mouse IL-17 RC. IL-17 RC is the cognate receptor for IL-17F, and it binds IL-17A with similar affinity (8). IL-17 RC associates with IL-17 RA to form a receptor complex for both IL-17A and IL-17F (8-11).

References:

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