

Human IL-17C, C-hFc Tag Protein

HA211315



Product name:	Human IL-17C, C-hFc Tag
Species reactivity:	Human
Bio-Activity:	Testing in progress.
Protein construction description:	A DNA sequence encoding the human IL-17C protein (Q9P0M4) (His 19-Lys 197) was expressed with a hFc tag at the C-terminus.

Background: The IL-17 family in humans comprises IL17A (sometimes confusingly called "IL-17"), IL17B, IL17C, IL17D, IL17E and IL17F. IL-17E is also known as IL-25. All members of the IL-17 family have a similar protein structure. Their protein sequences contain four highly conserved cysteine residues. These conserved cysteine residues are critical to the right 3-dimensional shape of the entire protein molecule. To the reference, the members of the IL-17 family do not exhibit a significant sequence homology with other cytokines. Among IL-17 family members, the IL-17F isoforms 1 and 2 (ML-1) have the highest sequence homology with IL-17A (55 and 40%, respectively). They are followed by IL-17B, which has 29% similarity to IL-17A, IL-17D (25%), IL-17C (23%), and IL-17E (17%). In mammals, the sequences of these cytokines are highly conserved. For instance, the sequence homology between the corresponding human and mouse proteins is usually between 62–88%. The gene for human IL-17A is 1874 base pairs long and was cloned from CD4+ T cells. Each member of the IL-17 family has a distinct pattern of cellular expression. The expression of IL-17A and IL-17F appear to be restricted to a small group of activated T cells, and upregulated during inflammation. IL-17B is expressed in several peripheral tissues and immune tissues. IL-17C is also highly upregulated in inflammatory conditions, although in resting conditions is low in abundance. IL-17D is highly expressed in the nervous system and in skeletal muscle and IL-17E is found at low levels in various peripheral tissues.

Purity:	>95% as determined by SDS-PAGE.
Endotoxin:	Less than 1.0 EU per µg by the LAL method.
Fragment region:	IL-17C (19-197)
Source:	HEK293
Accession:	Q9P0M4
Predicted molecular mass:	47.7 kD
Formulation:	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution:	Reconstitute at 250 µg/ml in sterile water.
Storage:	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

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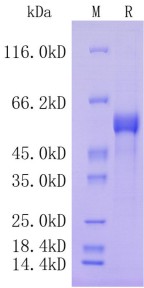


Fig1: Protein on SDS-PAGE under reducing (R) condition.

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