

IL-17C Protein, Human (HEK293, His-Avi)

Cat. No.:	HY-P78469
Synonyms:	CX2; Cytokine CX2; IL17C; IL-17C; IL-17CMGC126884
Species:	Human
Source:	HEK293
Accession:	Q9P0M4 (H19-V197)
Gene ID:	27189
Molecular Weight:	Approximately 25 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from 0.22um filtered solution in 50 mM MES, 150 mM NaCl, pH 6.0. Normally 5 % trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in 50mM MES, 150mM NaCl, pH 6.0.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>Interleukin-17C (IL-17C) belongs to the IL-17 cytokine family. IL-17C is predominantly expressed by epithelial cells. Human and mouse IL-17C shares 76.68% sequence identity.</p> <p>IL-17C binds to its functional receptor, a heterodimer formed by IL-17RA and IL-17RE. TLR2, TLR3 and TLR5 upregulate the expression of IL-17C at mucosal surfaces. The expression of IL-17C is also regulated by cytokines (TNF-α, IL-1β and IL-17A). IL-17C is an early response cytokine in the defense against bacterial pathogens and upregulates the expression of a variety of antimicrobial peptides including human beta-defensin 2 (hBD2), Lipocalin 2 (LCN2), and granzyme B. IL-17C also stimulates the release of cytokines (IL-1β, TNF-α, and IL-6).</p> <p>IL-17C is implicated in autoimmune disorders and bacterial infections^[1].</p>
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REFERENCES

- [1]. Swedik S, et al. IL-17C in human mucosal immunity: More than just a middle child. *Cytokine*. 2021 Oct;146:155641.
- [2]. Lauffer F, et al. IL-17C amplifies epithelial inflammation in human psoriasis and atopic eczema. *J Eur Acad Dermatol Venerol*. 2020 Apr;34(4):800-809.

Caution: Product has not been fully validated for medical applications. For research use only.

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