10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# IL18 Blocking Peptide (C-term)

**Synthetic peptide**
**Catalog # BP20583c**

## Specification

### IL18 Blocking Peptide (C-term) - Product Information

Primary Accession Q14116

### IL18 Blocking Peptide (C-term) - Additional Information

**Gene ID** 3606

**Other Names**
Interleukin-18, IL-18, Iboctadekin, Interferon gamma-inducing factor, IFN-gamma-inducing factor, Interleukin-1 gamma, IL-1 gamma, IL18, IGIF, IL1F4

**Target/Specificity**
The synthetic peptide sequence is selected from aa 175-188 of HUMAN IL18

**Format**
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

### IL18 Blocking Peptide (C-term) - Protein Information

**Name** IL18 (HGNC:5986)

**Synonyms** IGIF, IL1F4

**Function**
Pro-inflammatory cytokine primarily involved in epithelial barrier repair, polarized T-helper 1 (Th1) cell and natural killer (NK) cell immune responses (PubMed:<a href="http://www.uniprot.org/citations/10653850" target="_blank">10653850</a>). Upon binding to IL18R1 and IL18RAP, forms a signaling ternary complex which activates NF-kappa-B, triggering synthesis of inflammatory mediators (PubMed:<a href="http://www.uniprot.org/citations/14528293" target="_blank">14528293</a>, PubMed:<a href="http://www.uniprot.org/citations/25500532" target="_blank">25500532</a>). Synergizes with IL12/interleukin-12 to induce IFNG synthesis from T-helper 1 (Th1) cells and natural killer (NK) cells (PubMed:<a href="http://www.uniprot.org/citations/10653850" target="_blank">10653850</a>). Involved in transduction of inflammation downstream of pyroptosis: its mature form is specifically released in the extracellular milieu by passing through the gasdermin-D (GSDMD) pore (PubMed:<a href="http://www.uniprot.org/citations/33883744"

target="_blank">33883744</a>).

**Cellular Location**
Cytoplasm. Secreted. Note=The precursor is cytosolic (PubMed:33883744). In response to inflammasome-activating signals, cleaved and secreted (PubMed:33883744). Mature form is secreted and released in the extracellular milieu by passing through the gasdermin-D (GSDMD) pore (PubMed:33883744). In contrast, the precursor form is not released, due to the presence of an acidic region that is proteolytically removed by CASP1 during maturation (PubMed:33883744) The secretion is dependent on protein unfolding and facilitated by the cargo receptor TMED10 (PubMed:32272059).

## IL18 Blocking Peptide (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

## IL18 Blocking Peptide (C-term) - Images

## IL18 Blocking Peptide (C-term) - Background

Augments natural killer cell activity in spleen cells and stimulates interferon gamma production in T-helper type I cells.

## IL18 Blocking Peptide (C-term) - References

Ushio S.,et al.J. Immunol. 156:4274-4279(1996).
Gaggero A.,et al.Oncogene 23:7552-7560(2004).
Yong D.,et al.Submitted (JUL-1998) to the EMBL/GenBank/DDBJ databases.
Liu J.,et al.Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.