Proteins





Product Data Sheet

MIP-3 alpha/CCL20 Protein, Mouse (sf9, His)

Cat. No.: HY-P73813

Synonyms: C-C motif chemokine 20; MIP3A; SCYA20

Species:

Sf9 insect cells Source: Accession: O89093 (M1-M97)

Gene ID: 20297

PROPERTIES

Molecular Weight: Approximately 14 kDa

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.4, 10% Glycerol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
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.

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

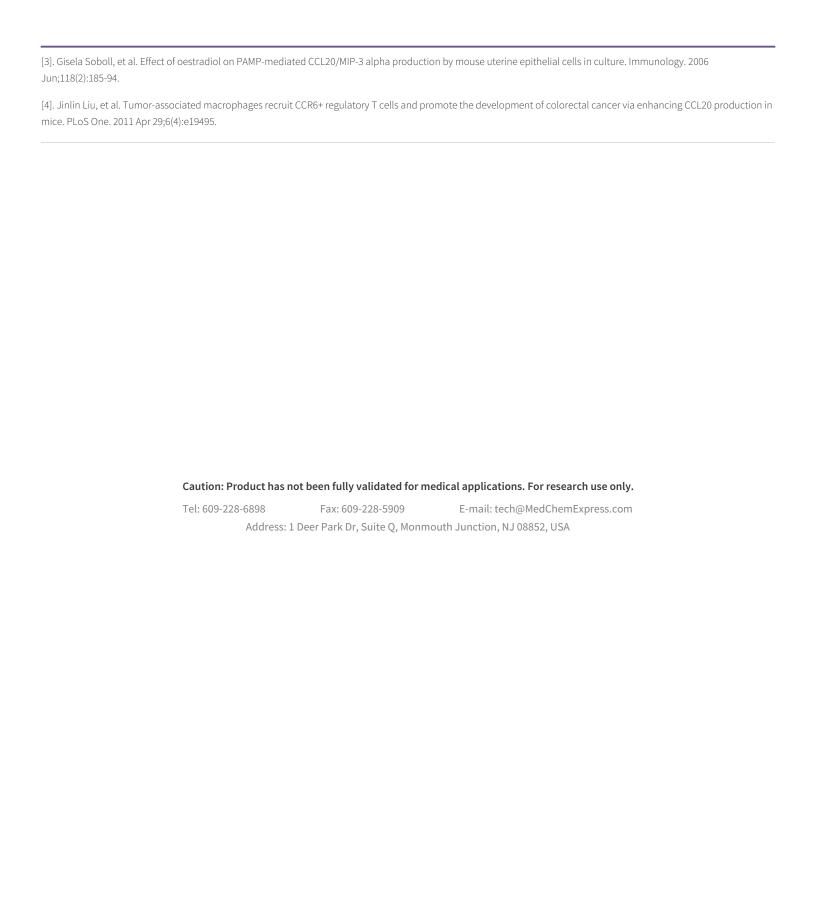
Shipping

CCL20, also known as macrophage inflammatory protein 3 alpha (MIP-3-alpha) and liver-activated regulatory chemokine (LARC), is a small cytokine belonging to the CC chemokine family and is located on chromosome 2 in the human genome. It is expressed at lower levels in the thymus, testis, prostate and intestine. CCL20 binds to and acts as a chemokine receptor CCR6 and synergistically inhibits the function of CD8 T cells with CCR6. CCL20 has antimicrobial activity and has been implicated in autoimmune diseases such as inflammatory bowel disease, rheumatoid arthritis, and psoriasis, as well as oncological diseases. It can induce Tregs to invade tumor tissue, recruit dendritic cells to promote immunosuppression, and induce endothelial cell proliferation and neointima formation^{[1][2]}.

REFERENCES

[1]. Louis Boafo Kwantwi, et al. Multifaceted roles of CCL20 (C-C motif chemokine ligand 20): mechanisms and communication networks in breast cancer progression. Bioengineered. 2021 Dec;12(1):6923-6934.

[2]. M Baba, et al. Identification of CCR6, the specific receptor for a novel lymphocyte-directed CC chemokine LARC. J Biol Chem. 1997 Jun 6;272(23):14893-8.



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