

Product Datasheet

RecombinantMIP-1 β /CCL4,Human (orb1494792)

Catalog Number	orb1494792
Category	Proteins
Description	Macrophage inflammatory protein 1 beta (MIP-1β), also known as Chemokine (C-C motif) ligand 4(CCL4), is a small cytokine belonging to the CC chemokine family. It is a chemoattractant for natural killer cells, monocytes and a variety of other immune cells. MIP-1β is a major HIV-suppressive factor produced by CD8+ T cells. Perforin-low memory CD8+ T cells are the most common T-cells that normally synthesize MIP-1-beta in humans. MIP-1β has been shown to interact with CCL3. It can signal through the CCR5 receptor. Recombinant MIP-1 beta/CCL4 produced in E.coli is a single non-glycosylated polypeptide chain containing 69 amino acids. A fully biologically active molecule, rhMIP-1 beta/CCL4 has a molecular mass of 7.6 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.
Form/Appearance	Lyophilized after extensive dialysis against PBS.
Buffer/Preservatives	Lyophilized after extensive dialysis against PBS.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Purification	> 95% as analyzed by SDS-PAGE and HPLC.
Protein Sequence	APM GSDPPTACCF SYTARKLPRN FVVDYYETSS LCSQPAVVFQ TKRSKQVCAD PSESWWQEYV YDLELN
MW	7.6 kDa, observed by reducing SDS-PAGE.
Application notes	Reconstituted in ddH ₂ O or PBS at 100 μ g/ml.
Endotoxins	0.2 EU/ μ g, determined by LAL method.
Source	Escherichia coli.

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Biological Activity

The EC50 value of human MIP-1 beta /CCL4 on Ca²⁺ mobilization assay in CHO-K1/ Gα15/hCCR5 cells (human Gα15 and human CCR5 stably expressed in CHO-K1 cells) is less than 100 ng/ml.

Storage

Lyophilized recombinant human MIP-1 beta /CCL4 remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, human MIP-1 beta /CCL4 should be stable up to 1 week at 4°C or up to 2 months at -20°C.

Note

For research use only

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