

RPES8227

Product Information

Product SKU:	RPES8227	Expression Host:	E.coli	Size:	20µg
Tag:	N-Gst	Reactivity:	Rat	Accession:	P30348

Additional Information

Calculated MW:	33.6 kDa	Observed MW:	39 kDa
Sequence:	Ser32-Asn100		

Protein Information

Background: Chemokine (C-X-C motif) ligand 2 (CXCL2), also called macrophage inflammatory protein 2 (MIP-2), Growth-regulated protein beta (Gro-beta) and Gro oncogene-2 (Gro-2), is a small cytokine belonging to the CXC chemokine family. CXCL2/MIP-2 is selectively up-regulated in tolerance-conferring APCs and serves to recruit NKT cells to the splenic marginal zone, where they form clusters with an APCs and T cells. In the absence of the high-affinity receptor for CXCL2/MIP-2 or in the presence of a blocking Ab to CXCL2/MIP-2, peripheral tolerance is prevented, and Ag-specific T regulatory cells are not generated. CXCL2/MIP-2 is selectively up-regulated in tolerance-conferring APCs and serves to recruit NKT cells to the splenic marginal zone, where they form clusters with an APCs and T cells. In the absence of the high-affinity receptor for MIP-2 (as in CXCR2-deficient mice) or in the presence of a blocking Ab to MIP-2, peripheral tolerance is prevented, and Ag-specific T regulatory cells are not generated. Understanding the regulation of lymphocyte traffic during tolerance induction may lead to novel therapies for autoimmunity, graft acceptance, and tumor rejection. Several studies have implicated the CXCL2 chemokine as a mediator in the development of sepsis. CXCL2/MIP-2 also plays a major role in mediating the neutrophilic inflammatory response of the rodent lung to particles such as quartz, crocidolite asbestos, as well as high doses of other relative innocuous dusts such as titanium dioxide.

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Synonyms:	C-X-C motif chemokine 2, Chemokine (C X C motif) ligand 2, Chemokine, CXC motif, ligand 2, CINC 2a, CINC2a, CINC3, CXC chemokine, CXCL 2, Cxcl2, CXCL2_HUMAN, Cytokine-induced neutrophil chemoattractant 3, GRO 2, GRO b, GRO protein, beta, Gro-beta, GRO-beta(5-73), GRO-beta-T, GRO2, GRO2 oncogene, GROb, GRObeta, Growth regulated protein beta, Growth-regulated protein beta, GROX, Hematopoietic synergistic factor
Endotoxin:	< 10 EU/mg of the protein as determined by the LAL method
Formulation:	Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Purity:	> 90% as determined by reducing SDS-PAGE.
Bio-Activity:	Not validated for activity
Storage:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.