# Recombinant Human CXCL2 Protein(Trx Tag)

**Catalog Number: PDEH100573**

**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

## Description

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| **Species** | Human |
| **Source** | E.coli-derived Human CXCL2 protein Ala35-Asn107, with an N-terminal Trx |
| **Mol_Mass** | 27.9 kDa |
| **Accession** | P19875 |
| **Bio-activity** | Not validated for activity |

## Properties

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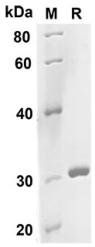
|---|---|
| **Purity** | > 90% as determined by reducing SDS-PAGE. |
| **Endotoxin** | < 10 EU/mg of the protein as determined by the LAL method |
| **Storage** | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months. |
| **Shipping** | This product is provided as lyophilized powder which is shipped with ice packs. |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5% Mannitol. |
| **Reconstitution** | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis. |

## Data




SDS-PAGE analysis of Human CXCL2 proteins , 2μg/lane of Recombinant Human CXCL2 proteins was resolved with SDS-PAGE under reducing conditions , showing bands at 30 KD

## 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 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 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.