Human CXCL2/GRO beta, Tag Free Protein

HA210904

Product name:	Human CXCL2/GRO beta, Tag Free
Species reactivity:	Human
Bio-Activity:	Testing in progress.
Protein construction description:	A DNA sequence encoding the human CXCL2/GRO beta protein (P19875) (Ala 35-Asn 107) was expressed with tag free.

Background: Chemokine (C-X-C motif) ligand 2 (CXCL2) is a small cytokine belonging to the CXC chemokine family that is also called macrophage inflammatory protein 2-alpha (MIP2-alpha), Growth-regulated protein beta (Gro-beta) and Gro oncogene-2 (Gro-2). CXCL2 is 90% identical in amino acid sequence as a related chemokine, CXCL1. This chemokine is secreted by monocytes and macrophages and is chemotactic for polymorphonuclear leukocytes and hematopoietic stem cells. The gene for CXCL2 is located on human chromosome 4 in a cluster of other CXC chemokines. CXCL2 mobilizes cells by interacting with a cell surface chemokine receptor called CXCR2. CXCL2, like related chemokines, is also a powerful neutrophil chemoattractant and is involved in many immune responses including wound healing, cancer metastasis, and angiogenesis. A study was published in 2013 testing the role of CXCL2, CXCL3, and CXCL1 in the migration of airway smooth muscle cells (ASMCs) migration which plays a significant role in asthma. The results of this study showed that CXCL2 and CXCL3 both help with the mediation of normal and asthmatic ASMC migration through different mechanisms.

Purity:	>95% as determined by SDS-PAGE.
Endotoxin:	Less than 1.0 EU per μg by the LAL method.
Fragment region:	CXCL2/GRO beta (35-107)
Source:	HEK293
Accession:	P19875
Predicted molecular mass:	8.2 kD
Formulation:	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution:	Reconstitute at 250 μg/ml in sterile water.
Storage:	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20℃ to -80℃ It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

Images

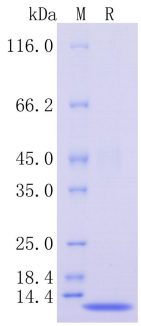

Fig1: Protein on SDS-PAGE under reducing (R) condition.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".