

Product datasheet for PH302075

IL8 (CXCL8) (NM_000584) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	IL8 MS Standard C13 and N15-labeled recombinant protein (NP_000575)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202075
Predicted MW:	11.1 kDa
Protein Sequence:	>RC202075 representing NM_000584 Red=Cloning site Green=Tags(s) MTSKLAVALLAAFLISAALCEGAVLPRSAKELRCQCIKTYSKPFHPKFIKELRVIESGPHCANTEIIVKL SDGRELCLDPKENWVQRVVEKFLKRAENS TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	50 ug/ml as determined by BCA
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	100 mM glycine, 25 mM Tris-HCl, pH 7.3. Store at -80°C. Avoid repeated freeze-thaw cycles. Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000575</u>
RefSeq Size:	1666
RefSeq ORF:	297
Synonyms:	GCP-1; GCP1; IL8; LECT; LUCT; LY NAP; MDNCF; MONAP; NAF; NAP-1; NAP1
Locus ID:	3576
Cytogenetics:	4q13.3



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Summary:

The protein encoded by this gene is a member of the CXC chemokine family and is a major mediator of the inflammatory response. The encoded protein is commonly referred to as interleukin-8 (IL-8). IL-8 is secreted by mononuclear macrophages, neutrophils, eosinophils, T lymphocytes, epithelial cells, and fibroblasts. It functions as a chemotactic factor by guiding the neutrophils to the site of infection. Bacterial and viral products rapidly induce IL-8 expression. IL-8 also participates with other cytokines in the proinflammatory signaling cascade and plays a role in systemic inflammatory response syndrome (SIRS). This gene is believed to play a role in the pathogenesis of the lower respiratory tract infection bronchiolitis, a common respiratory tract disease caused by the respiratory syncytial virus (RSV). The overproduction of this proinflammatory protein is thought to cause the lung inflammation associated with cystic fibrosis. This proinflammatory protein is also suspected of playing a role in coronary artery disease and endothelial dysfunction. This protein is also secreted by tumor cells and promotes tumor migration, invasion, angiogenesis and metastasis. This chemokine is also a potent angiogenic factor. The binding of IL-8 to one of its receptors (IL-8RB/CXCR2) increases the permeability of blood vessels and increasing levels of IL-8 are positively correlated with increased severity of multiple disease outcomes (eg, sepsis). This gene and other members of the CXC chemokine gene family form a gene cluster in a region of chromosome 4q. [provided by RefSeq, May 2020]

Protein Families:

Druggable Genome, Secreted Protein, Transmembrane

Protein Pathways:

Bladder cancer, Chemokine signaling pathway, Cytokine-cytokine receptor interaction, Epithelial cell signaling in Helicobacter pylori infection, NOD-like receptor signaling pathway, Pathways in cancer, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway

Product images:

Coomassie blue staining of purified CXCL8 protein (Cat# [TP302075]). The protein was produced from HEK293T cells transfected with CXCL8 cDNA clone (Cat# [RC202075]) using MegaTran 2.0 (Cat# [TT210002]).