

Recombinant Rat LPS-induced CXC Chemokine/CXCL5 (Rat LIX/CXCL5)

Product Information

Product Name	Cat#	Size
Recombinant Rat LPS-induced CXC Chemokine/CXCL5 (Rat LIX/CXCL5)	90938ES08	5 µg
	90938ES60	100 µg
	90938ES76	500 µg

Product Description

CXCL5 (epithelial neutrophil-activating peptide-78) is a member of a proangiogenic subgroup of the CXC-type chemokine family of small, secreted proteins. Human CXCL5 shares 57% amino acid (aa) sequence identity with mouse and rat CXCL5. Full length CXCL5 (78 aa) is trimmed at the N-terminus by cathepsin G and chymotrypsin to ENA-74 (74 aa) and ENA-70 (70 aa), with the shortened forms showing increased potency relative to full length CXCL5. CXCL5 which acts as a potent chemoattractant and activator of neutrophil function was reported to play a multifaceted role in tumorigenesis. CXCL5 targeted therapy would prevent not only the development of type II diabetes in obese subjects, but also several other obesity-related co morbidities.

Product Properties

Synonyms	chemokine (C-C motif) ligand 5, C-X-C motif chemokine 5, CXCL5, CXCL5/ENA-78, Cytokine LIX, ENA-78, Neutrophil-activating peptide ENA-78, neutrophil-activating protein 78, SCYB5ENA78, Small-inducible Cytokine B5
Accession	P97885
GeneID	60665
Source	E.coli-derived rat LIX/CXCL5 protein, Ala38-Gln130.
Molecular Weight	Approximately 10.1 kDa.
AA Sequence	APFSAMVATE LRCVCLTLAP RINPKMIANL EVIPAGPHCP KVEVIKLNK QKDNVCLDPQ APLIKKVIQK ILGSENKTK RNALALVRSR STQ
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	>97% by SDS-PAGE and HPLC analyses.
Biological Activity	The biological activity determined by a chemotaxis bioassay using human peripheral blood neutrophils is in a concentration of 10-100 ng/ml. Fully biologically active when compared to standard.
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 2 × PBS, pH 7.4. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
Reconstitution	Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!