

Recombinant Rhesus Macaque Interleukin-16 (Rhesus Macaque IL-16)

Product Information

Product Name	Cat#	Size
	90138ES10	10 µg
Recombinant Rhesus Macaque Interleukin-16 (Rhesus Macaque IL-16)	90138ES60	100 µg
	90138ES76	500 µg

Product Description

Interleukin 16, also named lymphocyte chemoattractant factor (LCF), was originally identified as a CD8+ T-cell-derived chemoattractant for CD4+ cells. IL-16 precursor protein has been detected in the lysates of various cells including mitogen stimulated PBMCs. The biologically active and secreted natural IL-16 is assumed to be a proteolytic cleavage product of pro-IL-16 generated by proteases present in or on activated CD8+ cells. A likely cleavage site was proposed to be at aspartate residue 510. This would yield a 121 amino acid residue protein, smaller than the 130 aa residue protein first described. The expression of IL-16 precursor mRNA has been detected in various tissues including spleen, thymus, lymph nodes, peripheral leukocytes, bone marrow and cerebellum. The gene for IL-16 precursor has been localized to chromosome 15. The biological activities ascribed to IL-16 are reported to be dependent on the cell surface expression of CD4, suggesting that IL-16 is a CD4 ligand. Besides its chemotactic properties, IL-16 has also been shown to suppress HIV-1 replication in vitro. Recombinant E.

Product Properties

Synonyms	Interleukin-16, Lymphocyte Chemoattractant Factor, LCF
Accession	O62675
GeneID	574100
Source	E.coli-derived Rhesus Macaque IL-16, Ser510-Ser630.
Molecular Weight	Approximately 12.5 kDa.
AA Sequence	SAASASAASD VSVESAEAT VYTVTLEKMS AGLGFSLEGG KGS LHGDKPL TINRIFKGAA SEQSETIQPG DEILQLAGTA MQGLTRFEAW NIIKALPDGP VTIVIRRKSL QPKETAAAD S
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 98% by SDS-PAGE and HPLC analyses.
Biological Activity	The biological activity determined by a chemotaxis bioassay using human peripheral T lymphocytes is in a concentration range of 1.0-100 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 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.