

Animal-Free CXCL16 Protein, Mouse (His)

Cat. No.:	HY-P700170AF
Synonyms:	C-X-C motif chemokine 16; SR-PSOX; CXCL16; SCYB16
Species:	Mouse
Source:	E. coli
Accession:	Q8BSU2 (N27-W201)
Gene ID:	66102
Molecular Weight:	Approximately 10.74 kDa

PROPERTIES

AA Sequence	<p>N Q G S V A G S C S C D R T I S S G T Q I P Q G T L D H I R K Y L K A F H R C P</p> <p>F F I R F Q L Q S K S V C G G S Q D Q W V R E L V D C F E R K E C G T G H G K S</p> <p>F H H Q K H L P</p>
Biological Activity	Measure by its ability to chemoattract BaF3 cells transfected with mouse CXCR6. The ED ₅₀ for this effect is <3 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 7.4.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>The CXCL16 protein exhibits multifaceted functionalities, including the induction of a robust chemotactic response and the initiation of calcium mobilization. Functioning as a ligand, it binds to CXCR6/Bonzo, thereby contributing to cellular signaling processes. Beyond its role as a chemotactic factor, CXCL16 serves as a scavenger receptor on macrophages, displaying a specific affinity for oxidized low-density lipoprotein (OxLDL). This interaction suggests its potential involvement in pathophysiological processes, particularly atherogenesis, where the recognition and clearance of OxLDL by macrophages play a crucial role. The diverse activities of CXCL16 highlight its versatility and underscore its potential implications in cellular responses and pathological conditions.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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