Datasheet for ABIN7013172

IL-8 Protein (AA 28-99) (His tag,AVI tag,Biotin)

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3 Images

Overview

Quantity:	200 µg
Target:	IL-8 (IL8)
Protein Characteristics:	AA 28-99
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL-8 protein is labelled with His tag,AVI tag,Biotin.

Product Details

Purpose:	Biotinylated Human IL-8 protein, His,Avitag™
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	IL-8 (IL8)
Alternative Name:	IL-8 (IL8 Products)
Background:	Interleukin 8 (IL8 or chemokine (C-X-C motif) ligand 8, CXCL8) is a chemokine produced by

Target Details

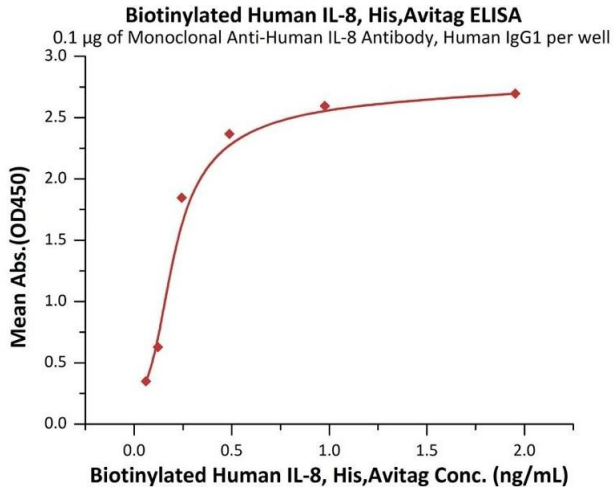
	macrophages and other cell types such as epithelial cells, airway smooth muscle cells and endothelial cells. There are many receptors on the surface membrane capable of binding IL-8, the most frequently studied types are the G protein-coupled serpentine receptors CXCR1 and CXCR2. Expression and affinity for IL-8 differs between the two receptors (CXCR1 > CXCR2). IL-8(6-77) has a 5-10-fold higher activity on neutrophil activation, IL-8(5-77) has increased activity on neutrophil activation and IL-8(7-77) has a higher affinity to receptors CXCR1 and CXCR2 as compared to IL-8(1-77), respectively.
Molecular Weight:	12.0 kDa
NCBI Accession:	NP_000575
Pathways:	TLR Signaling, Cellular Response to Molecule of Bacterial Origin, Regulation of G-Protein Coupled Receptor Protein Signaling, ER-Nucleus Signaling, Hepatitis C, Autophagy

Application Details

Comment:	Ready-to-use Avitag™ biotinylated protein: The product is exclusively produced using the Avitag™ technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA. This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.
Restrictions:	For Research Use only

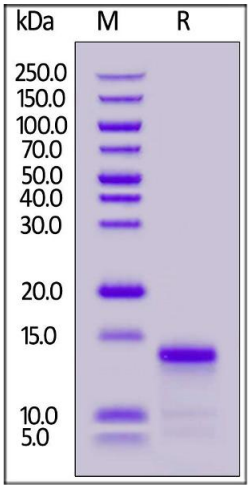
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Storage:	-20 °C



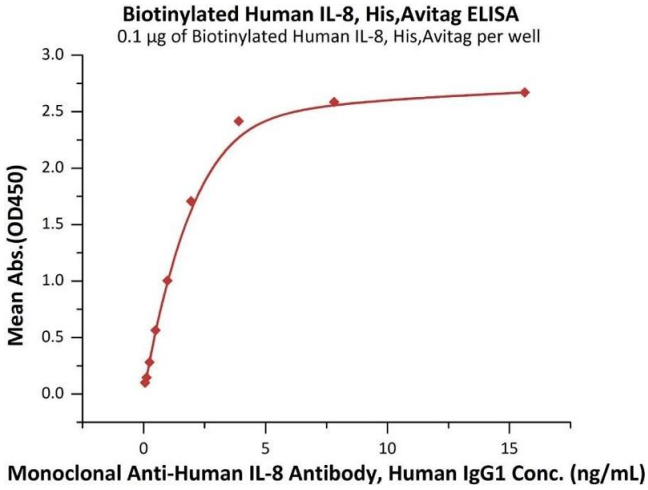
ELISA

Image 1. Immobilized Monoclonal A IL-8 Antibody, Human IgG1 at 1 µg/mL (100 µL/well) can bind Biotinylated Human IL-8, His,Avitag (ABIN6992354) with a linear range of 0.06-0.2 ng/mL (Routinely tested).



SDS-PAGE

Image 2. Biotinylated Human IL-8, His,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .



ELISA

Image 3. Immobilized Biotinylated Human IL-8, His,Avitag (ABIN6992354) at 1 µg/mL (100 µL/well) on streptavidin precoated (0.5 µg/well) plate can bind Monoclonal A IL-8 Antibody, Human IgG1 with a linear range of 0.06-2 ng/mL (QC tested).

