

Datasheet for ABIN7274568

Epiregulin Protein (EREG) (AA 63-108) (Fc Tag)[Go to Product page](#)**2** Images

Overview

Quantity:	100 µg
Target:	Epiregulin (EREG)
Protein Characteristics:	AA 63-108
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Epiregulin protein is labelled with Fc Tag.

Product Details

Purpose:	Human EREG Protein
Sequence:	Val63-Leu108
Characteristics:	Recombinant Human EREG Protein is expressed from HEK293 with hFc tag at the N-Terminus. It contains Val63-Leu108.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.

Target Details

Target:	Epiregulin (EREG)
Alternative Name:	EREG (EREG Products)

Target Details

Background:	Epidermal growth factor receptor (EGFR) regulates many crucial cellular programs, with seven different activating ligands shaping cell signaling in distinct ways. EGFR ligands epiregulin (EREG) and epigen (EPGN) stabilize different dimeric conformations of the EGFR extracellular region. As a consequence, EREG or EPGN induce less stable EGFR dimers than EGF-making them partial agonists of EGFR dimerization. Unexpectedly, this weakened dimerization elicits more sustained EGFR signaling than seen with EGF, provoking responses in breast cancer cells associated with differentiation rather than proliferation.
Molecular Weight:	32.6 kDa. Due to glycosylation, the protein migrates to 37-42 kDa based on Tris-Bis PAGE result.
UniProt:	O14944
Pathways:	RTK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Regulation of Muscle Cell Differentiation

Application Details

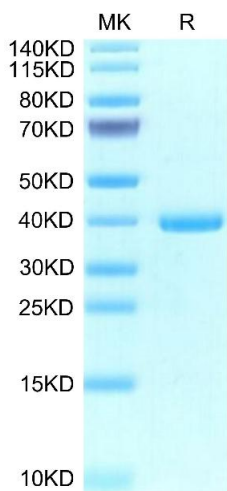
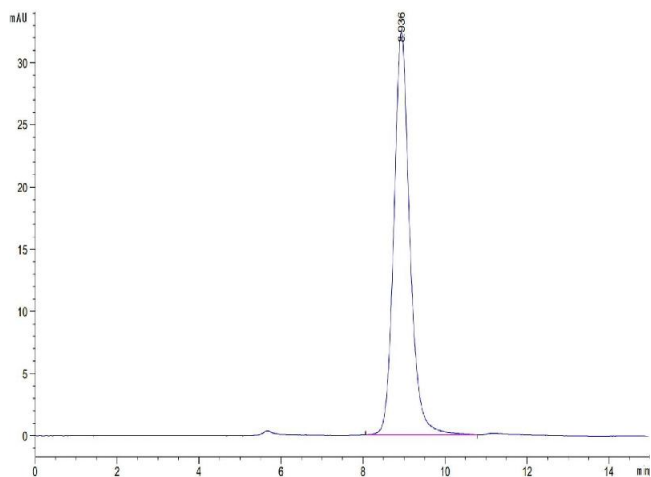
Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C, -80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 1. The purity of Human EREG is greater than 95 % as determined by SEC-HPLC.



SDS-PAGE

Image 2. Human EREG on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .