Datasheet for ABIN6809973

EGF Protein (AA 971-1023) (Fc Tag)

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Overview

Quantity:	100 µg
Target:	EGF
Protein Characteristics:	AA 971-1023
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This EGF protein is labelled with Fc Tag.

Product Details

Sequence:	AA 971-1023
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 0.1 EU per µg by the LAL method.

Target Details

Target:	EGF
Alternative Name:	EGF (EGF Products)
Background:	Human epidermal growth factor (EGF) is also known as HOMG4 and URG,and is a growth factor that plays an important role in the regulation of cell growth, proliferation, and differentiation by binding to its receptor EGFR. Epidermal growth factor can be found in human platelets, macrophages, urine, saliva, milk, and plasma. EGF is the founding member of the EGF-

Target Details

	family of proteins. Members of this protein family have highly similar structural and functional characteristics. All family members contain one or more repeats of the conserved amino acid sequence. The biological effects of salivary EGF include healing of oral and gastroesophageal ulcers, inhibition of gastric acid secretion, stimulation of DNA synthesis as well as mucosal protection from intraluminal injurious factors such as gastric acid, bile acids, pepsin, and trypsin and to physical, chemical and bacterial agents. Because of the increased risk of cancer by EGF, inhibiting it decreases cancer risk.
Molecular Weight:	33.1 kDa
NCBI Accession:	NP_001954
Pathways:	NF-kappaB Signaling, RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Regulation of Carbohydrate Metabolic Process, Hepatitis C, Protein targeting to Nucleus, Interaction of EGFR with phospholipase C-gamma, Thromboxane A2 Receptor Signaling, EGFR Downregulation

Application Details

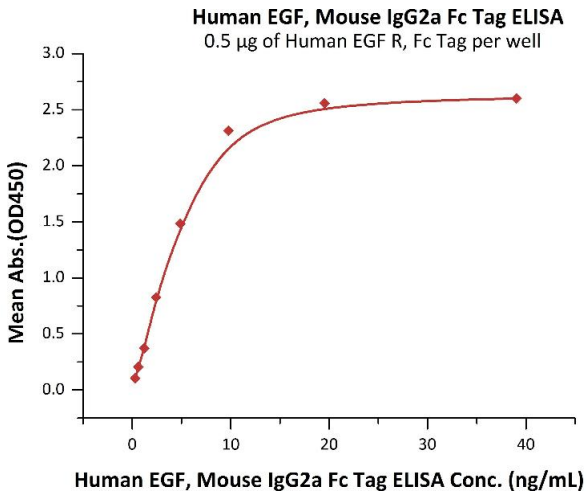
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Tris with Glycine, Arginine and NaCl, pH 7.5
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C

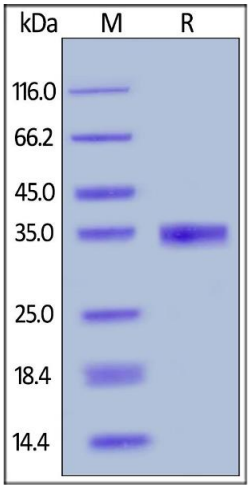
Publications

Product cited in:	Wang, Hao, Yu, Huang, Pan, Zhao: "A Wearable and Deformable Graphene-Based Affinity Nanosensor for Monitoring of Cytokines in Biofluids." in: **Nanomaterials (Basel, Switzerland)**, Vol. 10, Issue 8, (2020) (PubMed).



ELISA

Image 1. Immobilized Human EGF R, Fc Tag (ABIN2181001,ABIN2181000) at 5 µg/mL (100 µL/well)can bind Human EGF, Mouse IgG2a Fc Tag (ABIN6731279,ABIN6809973) with a linear range of 0.3-10 ng/mL (QC tested).



SDS-PAGE

Image 2. Human EGF, Mouse IgG2a Fc Tag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .