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Datasheet for ABIN7274522

EGF Protein



Images



Overview

Quantity:	100 μg
Target:	EGF
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Sequence:	Asn971-Arg1023
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.
Biological Activity Comment:	Immobilized Human EGF at 2µg/ml (100µl/well) on the plate. Dose response curve for Human
	EGFR, hFc Tag with the EC50 of 81.0ng/ml determined by ELISA. The affinity constant of 0.05
	nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

Target:	EGF
Alternative Name:	EGF (EGF Products)
Background:	HOMG4, EGF, URG, The epidermal growth factor (EGF) family of peptides encodes several proteins that can function as growth factors. The EGF-like peptides, with the exception of
	proteins of the EGF-CFC subfamily, bind and activate tyrosine kinase receptors that belong to

Target Details

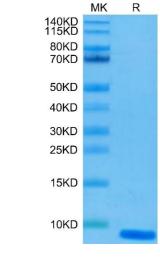
	the erbB family.
Molecular Weight:	5.6 kDa same as Tris-Bis PAGE result.
Pathways:	NF-kappaB Signaling, RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Regulation of Carbohydrate Metabolic Process, Hepatitis C, Protein targeting to Nucleus, Interaction of EGFR with phospholipase C-gamma,
	Thromboxane A2 Receptor Signaling, EGFR Downregulation

Application Details

Expiry Date:

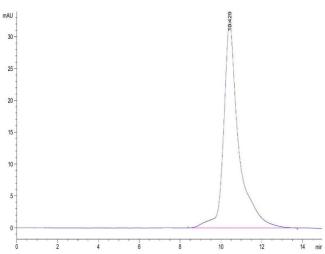
12 months

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 μ g/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from $0.22\mu m$ filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	4 °C,-80 °C
Storage Comment:	Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.



SDS-PAGE

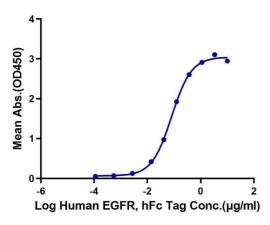
Image 1. Human EGF on Tris-Bis PAGE under reduced condition. The purity is greater than 95 %.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human EGF is greater than 95 % as determined by SEC-HPLC.





ELISA

Image 3. Immobilized Human EGF at 2 μ g/mL (100 μ L/well) on the plate. Dose response curve for Human EGFR, hFc Tag with the EC50 of 81.0 ng/mL determined by ELISA.

Please check the product details page for more images. Overall 5 images are available for ABIN7274522.