Datasheet for ABIN7596213

Epiregulin Protein (EREG) (AA 63-108) (hIgG-His-tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	Epiregulin (EREG)
Protein Characteristics:	AA 63-108
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Epiregulin protein is labelled with hIgG-His-tag.
Application:	SDS-PAGE (SDS), Activity Assay (AcA)

Product Details

Sequence:	VSITKC SSDMNGYCLH GQCIYLVDMS QNYCRCEVGY TGVRCEHFFL
Purity:	> 90% by SDS - PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)
Biological Activity Comment:	Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells. The ED50 range ≤ 1 ug/ml.

Target Details

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

Target Details

Background:	Epiregulin is a member of the epidermal growth factor family. It is expressed primarily in the placenta and macrophages and high level expression has also been detected in various carcinomas. This protein contributes to inflammation, wound healing, tissue repair, and oocyte maturation by regulating angiogenesis and vascular remodeling and by stimulating cell proliferation. Epiregulin is growth factors involved in cancer development. Deregulated epiregulin activity appears to contribute to the progression of a number of different malignancies, including cancers of the bladder, stomach, colon, breast, lung, head and neck, and liver. It inhibit the growth of several epithelial tumor cells and stimulated the growth of fibroblasts and various other types of cells. In addition, it has been implicated in the implantation process during pregnancy. Recombinant human Epiregulin, fused to hIgG-His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Molecular Weight:	32.6kDa (289aa)
NCBI Accession:	NP_001423
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Regulation of Muscle Cell Differentiation

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.