Bioactive

AREG (Human) Recombinant Protein

Catalog # P8443 Size 50 ug

Specification

Product Description	Human AREG (P15514) recombinant protein expressed in *Escherichia coli*.
Sequence	SVRVEQVVKPPQNKTESENTSDKPKRKKKGGKNGKNRRNRKKKNPCNAEFQNFCIHGECKYIEH LEAVTCKCQQEYFGERCGEKSMKTHSMIDSSLSK.
Host	Escherichia coli
Theoretical MW (kDa)	11.3
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purity	> 95% by HPLC and SDS PAGE
Activity	Determined by the ability to stimulate the proliferation of mouse Balb/c 3T3 cells. The expected ED_{50} for this effect is 5-10 ng/mL, corresponding to a specific activity of 100,000-200,000 units/mg.
Storage Buffer	Lyophilized from PBS, pH 7.4.
Storage Instruction	Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Applications

- Functional Study
- SDS-PAGE

Gene Info — AREG

Entrez GeneID	374
Protein Accession#	P15514
Gene Name	AREG
Gene Alias	AR, CRDGF, MGC13647, SDGF
Gene Description	amphiregulin
Omim ID	104640
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the epidermal growth factor family. It is an autocrine growth factor as well as a mitogen for astrocytes, Schwann cells, and fibroblasts. It is related to epidermal growth factor (EGF) and transforming growth factor alpha (TGF-alpha). This protein interacts with the EGF/TGF-alpha receptor to promote the growth of normal epithelial cells and inhibits the growth of certain aggressive carcinoma cell lines. This encoded protein is associated with a psoriasis-like skin phenotype. [provided by RefSeq
Other Designations	OTTHUMP00000160473|colorectum cell-derived growth factor|schwannoma-derived growth factor

Pathway

- ErbB signaling pathway

Disease

- Genetic Predisposition to Disease
- Ovarian Neoplasms