

Active Recombinant Human AREG Protein

Cat. No. AREG-002H Lot. No. (See product label)

SPECIFICATION

Product Overview	The mature recombinant human AR protein containing 98aa (S101-K198) without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	101-198 a.a.
Description	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). The protein interacts with the EGF/TGF-alpha receptor to promote the growth of normal epithelial cells, and it inhibits the growth of certain aggressive carcinoma cell lines. It also functions in mammary gland, oocyte and bone tissue development. This gene is associated with a psoriasis-like skin phenotype, and is also associated with other pathological disorders, including various types of cancers and inflammatory conditions.
Bio-activity	Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells. The ED50 for this effect is 5-15 ng/mL.
Molecular Mass	11 kDa
Product-Related	101-198

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Proteins	
Endotoxin	< 0.1 EU/μg of the protein as determined by the LAL method
Purity	> 95 % as determined by SDS-PAGE
Storage	At -80 centigrade. Avoid repeated freeze-thaw cycles.
Storage Buffer	PBS

GENE INFORMATION

Gene Name	AREG amphiregulin [Homo sapiens (human)]
Official Symbol	AREG
Synonyms	AREG; amphiregulin; AR; SDGF; AREGB; CRDGF; amphiregulin; Names; amphiregulin B; colorectum cell-derived growth factor; schwannoma-derived growth factor
Gene ID	374
mRNA Refseq	NM_001657
Protein Refseq	NP_001648
MIM	104640
UniProt ID	P15514

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