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## Product Datasheet

### Human Amphiregulin protein, His and GST tag, Unconjugated GTX00421-PRO

Article Name	Human Amphiregulin protein, His and GST tag, Unconjugated
Biozol Catalog Number	GTX00421-PRO
Supplier Catalog Number	GTX00421-pro
Alternative Catalog Number	GTX00421-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	<a href="#">374</a>
UniProt	<a href="#">P15514</a>
Buffer	Reconstitute with 20mM Tris (pH8.0) and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris (pH8.0), 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	E. coli
Form	Lyophilized powder
Sequence	N-terminal His-Tag and GST-Tag, Ser20~Asp100 (NP_001648.1)

Application Notes

Amphiregulin, also known as AREG, is an autocrine growth factor as well as a mitogen for astrocytes, Schwann cells, fibroblasts. It is related to epidermal growth factor (EGF) and transforming growth factor alpha (TGF-alpha). This protein interacts with the Epidermal growth factor receptor (EGFR) to promote the growth of normal epithelial cells. Besides, Epidermal Growth Factor Receptor (EGFR) has been identified as an interactor of ARGE, thus a binding ELISA assay was conducted to detect the interaction of recombinant human ARGE and recombinant human EGFR. Briefly, ARGE were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to EGFR-coated microtiter wells and incubated for 2h at 37C. Wells were washed with PBST and incubated for 1h with anti-ARGE pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37C. Finally, add 50 µl stop solution to the wells and read at 450nm immediately. The binding activity of ARGE and EGFR was in a dose dependent manner.