

32-6335: EGFL6 Human

Application : Functional Assay

Alternative Name : EGF Like Domain Multiple 6, MAM and EGF Domains-Containing Gene Protein, MAM and EGF Domain Containing, EGF-Like Protein 6, MAEG, EGF Repeat-Containing Protein 6, W80, EGFL6.

Description

Source: HEK (Human embryonic kidney cells).

Sterile Filtered White lyophilized (freeze-dried) powder.

Epidermal Growth Factor-like Domain Multiple 6 (EGFL6) belongs to the EGF repeat superfamily of proteins, whose members are involved in the regulation of cell cycle, proliferation, and developmental processes. EGFL6 gene product contains a signal peptide, suggesting that EGFL6 is secreted; an EGF repeat region consisting of four complete EGF-like repeats and 1 partial EGF-like repeat, 3 of which have a calcium-binding consensus sequence; an arg-gly-asp integrin association motif; and a MAM domain, which is assumed to have an adhesive function. Within shared regions, human EGFL6 shares 75% and 78% amino acid sequence identity with the mouse and rat orthologs, respectively. EGFL6 is expressed in various fetal tissues during early development such as the lung, heart, liver, spleen, cochlea and the placenta, as well as meningioma tumors.

EGF Like Domain Multiple 6 Human Recombinant produced in HEK cells is a polypeptide chain starting at amino acid Asn at position 22 to amino acid Arg at position 363, fused to an FC, 6 x His-tag at C-terminus, containing a total of 348 amino acids and having a predicted molecular mass of 40-55kDa. The EGFL6 is purified by proprietary chromatographic techniques.

Product Info

Amount : 2 µg / 10 µg

Purification : Greater than 95.0% as determined by SDS-PAGE.

Content :

The EGFL6 protein was lyophilized from a 0.2µm filtered solution in 20mM MES and 500mM NaCl, pH 6.0 with 5% Trehalose.

It is recommended to reconstitute the lyophilized EGFL6 in sterile PBS at 500µg/ml, which can then be further diluted to other aqueous solutions.

Storage condition :

Lyophilized EGFL6 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution EGFL6 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Application Note

EGFL6 activity is determined by its ability of the immobilized protein to support the adhesion of NIH-3T3 mouse embryonic fibroblast cells. The expected ED50 for this effect is 1-5 Åµg/ml.