

## EGFL6 Protein, Mouse, Recombinant (hFc)

### General Information

Synonyms:	EGF-like-domain, multiple 6;MGC141463;Egfl6;Maeg
Protein Construction:	A DNA sequence encoding the mouse Egfl6 (NP_062270.1) (Thr287-Gly550) was expressed with the Fc region of human IgG1 at the C-terminus. Predicted N terminal: Thr 287
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q9JJZ5
Molecular Weight:	56.8 kDa (predicted)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

**Reconstitution:**  
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

**Stability & Storage:**

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

**Shipping:**

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

EGFL6, also known as EGF-L6, belongs to the epidermal growth factor (EGF) repeat superfamily. Members of this superfamily are characterized by the presence of EGF-like repeats and are often involved in the regulation of cell cycle, proliferation, and developmental processes. EGFL6 contains a signal peptide, suggesting that it is secreted; an EGF repeat region consisting of 4 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

believed to have an adhesive function. EGFL6 gene is expressed early during development, and its expression has been detected in lung and meningioma tumors.

### Reference

Kimura K. et al., 2006, Genome Res. 16 (1): 55-65.

Lee SH. et al., 2008, Pathology. 40 (1): 95-7.

Oberauer R. et al., 2010, Mol Cell Biochem. 343 (1-2): 257-69.

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