

Tomoregulin-1 Protein, Mouse, Recombinant (hFc)

General Information

Synonyms:	M7365;transmembrane protein with EGF-like and two follistatin-like domains 1;A830033E11; Tr1
Protein Construction:	A DNA sequence encoding the mouse TMEFF1 (EDL02331.1) (Met1-Val323) was expressed with the Fc region of human IgG1 at the C-terminus. Predicted N terminal: Ala 36
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q6PFE7-2
Molecular Weight:	57.8 kDa (predicted); 69 kDa (reducing conditions)

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/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm 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

TMEFF1 is a novel transmembrane protein, containing two follistatin domains and an epidermal growth factor-like region. The ectopic expression of TMEFF1 in brain cancer cells resulted in their growth inhibition. That TMEFF1 may behave as a tumor suppressor gene in brain cancers. TMEFF1 and TMEFF2 are putative transmembrane proteins comprised of one epidermal growth factor (EGF)-like domain and two follistatin-like domains. Both TMEFF1 and

TMEFF2 are predominantly expressed in the brain.

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