

Tomoregulin-1 Protein, Human, Recombinant (hFc)

General Information

Synonyms:	TR-1;C9orf2;transmembrane protein with EGF-like and two follistatin-like domains 1;CT120.1;H7365
Protein Construction:	A DNA sequence encoding the human TMEFF1 (NP_003683.2) (Met1-Val330) was expressed with the Fc region of human IgG1 at the C-terminus. Predicted N terminal: Ser 40
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q8IYR6-1
Molecular Weight:	58.5 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:	> 85 % 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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