Data Sheet (Cat.No.TMPY-03786)

TargetMol

PLAC9 Protein, Human, Recombinant (mFc)

General Information

Synonyms:	placenta specific 9;PLAC9
Protein Construction:	A DNA sequence encoding the huamn PLAC9 (Q5JTB6) (Met1-Phe97) was fused with Fc region of mouse IgG1 at the C-terminus. Predicted N terminal: Ala 23
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q5JTB6
Molecular Weight:	34.5 kDa (predicted); 37 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

PLAC9 belongs to the PLAC9 family. PLAC9 gene is a placental-enriched gene. There are other two placental-enriched genes: Plac1 and Plac8. Plac1 is strongly expressed in all trophoblast-derived cells in the placenta and has been described in 2. Plac8 expression is restricted to the spongiotrophoblast layer during development, whereas PLAC9 is weakly expressed though highly enriched in placenta. For both, cDNAs with complete open reading frames were recovered and exon-intron structures inferred from comparisons of mouse cDNA and

genomic sequence. The predicted proteins both contain putative signal peptides, with a coiled-coil segment of mPLAC9 as the only other detected motif. Genomic sequence comparisons reveal that in addition to an apparent pseudogene on chromosome 1, Plac8 is expressed at mouse cytoband 5e3.

Reference

Deloukas P. et al., 2004, Nature. 429 (6990): 375-81.
Galaviz-Hernandez C. et al., 2003, Gene. 309 (2): 81-9.
Gerhard DS. et al., 2004, Genome Res. 14 (10B): 2121-7.

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