Data Sheet (Cat.No.TMPK-01379)

TargetMol

SEMA4D Protein, Cynomolgus, Recombinant (His)

General Information

Synonyms:	Semaphorin-4D;FLJ33485;FLJ46484;SEMA4D;FLJ39737;coll-4;FLJ34282;M-sema-G;SEMAJ;MGC169138;CD100;C9orf164;MGC169141
Protein Construction:	Phe24-Arg734
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	A0A2K5TZC9
Molecular Weight:	80.1 kDa (predicted). Due to glycosylation, the protein migrates to 90-120 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Cynomolgus Semaphorin 4D, His Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Anti-Semaphorin 4D Antibody , hFc Tag with the EC50 of 11.8ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
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, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

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

Semaphorin 4D (Sema4D) is a multifunctional protein widely expressed in an organism that plays an important role in the control of many physiological and pathological processes, including immunoregulation, neurogenesis, angiogenesis, and tumor progression.

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