Data Sheet (Cat.No.TMPK-01381)

TargetMol

CSPG4/MCSP Protein, Cynomolgus, Recombinant (His)

General Information

Synonyms:	MCSPG;CSPG4;MCSP;NG2
Protein Construction:	Ser1581-Ser2222
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	A0A2K5UW71
Molecular Weight:	69.30 kDa (predicted). Due to glycosylation, the protein migrates to 90-110 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
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

The chondroitin sulfate proteoglycan-4 (CSPG4) is a cell surface proteoglycan overexpressed in a huge range of human and canine neoplastic lesions by tumor cells, tumor microenvironment and cancer initiating cells. CSPG4 plays a central role in the oncogenic pathways required for malignant progression and metastatization.

Reference

Rolih V, et al. CSPG4: a prototype oncoantigen for translational immunotherapy studies. J Transl Med. 2017 Jul 1;15 (1):15doi: 10.1186/s12967-017-1250-4. PMID: 28668095; PMCID: PMC5494135.

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