

Recombinant human CD9 protein

Catalog Number: ATGP2970

PRODUCT INFORMATION

Expression system

E.coli

Domain

112-195aa

UniProt No.

P21926

NCBI Accession No.

NP_001760

Alternative Names

CD9 antigen, BTCC-1, DRAP-27, MIC3, MRP-1, TSPAN-29, TSPAN29

PRODUCT SPECIFICATION

Molecular Weight

12 kDa (107aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol, 1mM DTT

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

CD9, also known as CD9 antigen, is a protein that in humans is encoded by the CD9 gene. CD9 is a cell surface glycoprotein that is known to complex with integrins and other transmembrane 4 superfamily proteins. It is found on the surface of exosomes. It can modulate cell adhesion and migration and also trigger platelet activation and aggregation. In addition, the protein appears to promote muscle cell fusion and support myotube maintenance. This protein also seems to be a key part in the egg-sperm fusion during mammalian fertilization, as CD9 knocked-out mice gametes don't undergo fusion. Recombinant human CD9, fused to His-tag at N-

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terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>SHKDEVI KEVQEFYKDT YNKLKTKDEP QRETLKAIHY ALNCCGLAGG
VEQFISDICP KKDVLLETFTV KSCPDAIKEV FDNKFHI

General References

Horvath G, Serru V, et al. (1998). J Biol Chem. 273(46):30537-43.

Charrin S, Le Naour F, et al. (2001). J Biol Chem.276(17):14329-37.

DATA

SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

