Data Sheet (Cat.No.TMPY-02404)

TargetMol

ADAM9 Protein, Mouse, Recombinant (His)

General Information

Synonyms: mKIAA0021;AU020942;ADAM metallopeptidase domain 9;Mltng;MDC9

Protein Construction: Gly30-Asp697

Species: Mouse

Expression Host: HEK293 Cells

Accession: Q61072

Molecular Weight: 77.61 kDa (Predicted); 65-115 kDa (Reducing conditions due to glycosylation)

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it.

Purity: > 90% as determined by Tris-Bis PAGE; > 90% as determined by HPLC

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Supplied as 0.22μm filtered solution in PBS (pH 7.4).

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:

Solutions are shipped with dry ice.

Protein Background

A disintegrin and metalloproteinase 9 (ADAM9) is a member of the transmembrane ADAM family. It is expressed in different types of solid cancer and promotes tumor invasiveness. ADAM9 may be a prognostic marker for vestibular schwannomas (VS), and ADAM9 inhibition might have the potential as a systemic approach for the treatment of VS.

Reference

Caltabiano R, et al. (2011) ADAM-9 expression in intestinal-type adenocarcinoma of the sinonasal tract. Appl Immunohistochem Mol Morphol. 19(3): 283-7.
Peduto L. (2009) ADAM9 as a potential target molecule in cancer. Curr Pharm Des. 15(20): 2282-7.
Zigrino P, et al. (2007) Role of ADAM-9 disintegrin-cysteine-rich domains in human keratinocyte migration. J Biol Chem. 282(42): 30785-93.

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