

Rat HepaCAM2 Protein (Fc Tag)

Catalog Number: 80242-R02H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

MIK1; AI987662; HepaCAM2

Protein Construction:

A DNA sequence encoding the rat HepaCAM2 (B5DEN8) (Met1-Leu350) was expressed with the Fc region of human IgG1 at the C-terminus.

Source: Rat

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Leu 33

Molecular Mass:

The recombinant rat HepaCAM2/Fc is a disulfide-linked homodimer. The reduced monomer comprises 559 amino acids and has a predicted molecular mass of 62.3 kDa. The apparent molecular mass of the protein is approximately 66-73 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

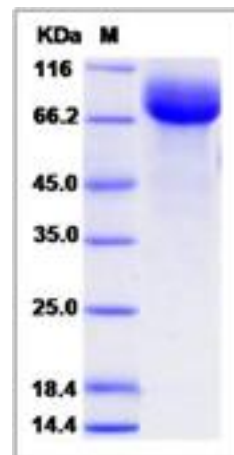
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

HepaCAM2 belongs to the immunoglobulin family. HepaCAM2, together with HEPACAM1, are cell adhesion molecules. HEPACAM1 modulates cell adhesion and migration. It also inhibits cancer cell growth. HepaCAM2 contains 2 Ig-like C2-type (immunoglobulin-like) domains. The immunoglobulin domain is a type of protein domain that consists of a 2-layer sandwich of between 7 and 9 antiparallel β -strands arranged in two β -sheets with a Greek key topology. Members of the immunoglobulin superfamily are found in hundreds of proteins of different functions.

References

1. Moh MC, *et al.* (2008) Expression of hepaCAM is downregulated in cancers and induces senescence-like growth arrest via a p53/p21-dependent pathway in human breast cancer cells. *Carcinogenesis*. 29(12):2298-305.
2. Moh MC, *et al.* (2005) Structural and functional analyses of a novel ig-like cell adhesion molecule, hepaCAM, in the human breast carcinoma MCF7 cells. *J Biol Chem*. 280(29):27366-74.
3. Chung Moh M, *et al.* (2005) Cloning and characterization of hepaCAM, a novel Ig-like cell adhesion molecule suppressed in human hepatocellular carcinoma. *J Hepatol*. 42(6):833-41.

Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

Fax :+86-10-51029969 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>