

# Human CD136 / MST1R Protein (His Tag)



Sino Biological  
Biological Solution Specialist

Catalog Number: 11608-H08H

## General Information

### Gene Name Synonym:

CD136; CDw136; PTK8; RON

### Protein Construction:

A DNA sequence encoding the amino acid sequence (Met 1-Leu 571) of human CD136 (Q04912) extracellular domain was fused with a polyhistidine tag at the C-terminus.

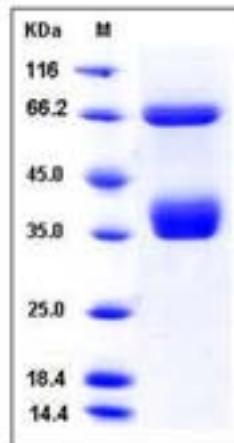
**Source:** Human

**Expression Host:** HEK293 Cells

## QC Testing

**Purity:** > 98 % as determined by SDS-PAGE

### SDS-PAGE:



## Protein Description

The tyrosine kinase receptor, macrophage-stimulating 1 receptor (MST1R), a c-met-related tyrosine kinase, also known as the Ron receptor or CD136, controls cell survival and motility programs related to invasive growth. As tyrosine kinase receptor comprised of an extra-cellular domain, MST1R protein contains the ligand binding pocket and an intracellular region where the kinase domain is located. MST1R signaling may be involved in the regulation of macrophage and T-lymphocyte activation in vivo during injury. This assessment of gene expression indicates the importance of genetic factors in contributing to lung injury, and points to strategies for intervention in the progression of inflammatory diseases. It had been shown that MST1R/CD136 plays a critical role in Ni-induced lung injury in mice. The overexpression of MSP, MT-SP1, and MST1R was a strong independent indicator of both metastasis and death in human breast cancer patients and significantly increased the accuracy of an existing gene expression signature for poor prognosis. Stimulation of MST1R leads to its transphosphorylation and the ultimate activation of numerous intracellular signaling pathways, such as the classical mitogen-activated protein kinase pathway, the phosphotidylinositol (PI)3-kinase pathway, and the JNK pathway.

### 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.**

### References

- 1.Ronsin C, et al. (1993) A novel putative receptor protein tyrosine kinase of the met family. *Oncogene*. 8: 1195-1202.
- 2.McDowell SA, et al. (2002) The role of the receptor tyrosine kinase Ron in nickel-induced acute lung injury. *Am J Respir Cell Mol Biol*. 26(1): 99-104.
- 3.Angeloni D, et al. (2003) C to A single nucleotide polymorphism in intron 18 of the human MST1R (RON) gene that maps at 3p21.3. *Mol Cell Probes*. 17(2-3): 55-7.

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

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

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