

For Research Use Only

Recombinant Human RON/MST1R protein (rFc Tag)



Catalog Number: Eg3493

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
CHO-derived Human RON protein Glu25-Leu571 (Accession# Q04912-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
4486

Accession:
Q04912-1

Predicted Molecular Mass:
84.9 kDa

SDS-PAGE:
30-33 kDa, 55-65 kDa and 90-100 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

RON, also known as CD136 or Macrophage-Stimulating Protein Receptor (MST1R), is a type I transmembrane protein belonging to the group B of the scavenger receptor cysteine-rich (SRCR) superfamily. It is primarily expressed on cells of epithelial origin, as well as on specific immune cells such as macrophages. Its activation occurs upon binding to its ligand, Macrophage-Stimulating Protein (MSP), which triggers intracellular signaling cascades. These pathways are critically involved in regulating key cellular processes including proliferation, migration, survival, and the inhibition of apoptosis. Under normal physiological conditions, CD136 signaling contributes to tissue repair, inflammation resolution, and maintaining epithelial homeostasis. However, dysregulated CD136 expression and signaling are strongly implicated in oncogenesis, where it promotes tumor growth, invasive metastasis, and confers resistance to conventional therapies in various carcinomas.

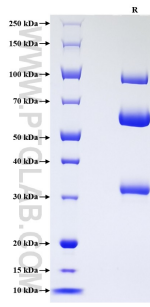
References

1. Kowal, Krzysztof et al. *Folia histochemica et cytobiologica* vol. 49,3 (2011): 365-74.
2. Kang, Chang Moo et al. *Pancreas* vol. 43,2 (2014): 183-9.
3. Huang, Lingtong et al. *Frontiers in immunology* vol. 11(2020): 569082.

Synonyms

MST1R, CD136, CDw136, EC:2.7.10.1, Macrophage-stimulating protein receptor

Selected Validation Data



Purity of Recombinant Human RON was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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