

For Research Use Only

Recombinant Human Cubilin protein (rFc Tag)



Catalog Number: Eg6589

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:
HEK293-derived Human Cubilin protein Cys932-Tyr1389 (Accession# O60494) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
8029

Accession:
O60494

Predicted Molecular Mass:
77.3 kDa

SDS-PAGE:
90-120 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

Cubilin (CUBN) acts as a receptor for intrinsic factor-vitamin B12 complexes. Cubilin is located within the epithelium of intestine and kidney. Mutations in CUBN may play a role in autosomal recessive megaloblastic anemia. Cubilin is an endocytic receptor which plays a role in lipoprotein, vitamin and iron metabolism by facilitating their uptake. Cubilin acts together with LRP2 to mediate endocytosis of high-density lipoproteins, GC, hemoglobin, ALB, TF and SCGB1A1, which also acts together with AMN to mediate endocytosis of the CBLIF-cobalamin complex.

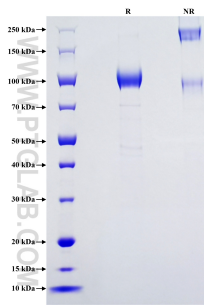
References

1. Fyfe, John C et al. Blood vol. 103,5 (2004): 1573-9.
2. Kozyraki, R et al. Blood vol. 91,10 (1998): 3593-600.

Synonyms

460 kDa receptor, CUBN, IFCR, Intestinal intrinsic factor receptor, Intrinsic factor-cobalamin receptor

Selected Validation Data



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

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

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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