

For Research Use Only

Recombinant Human COL23A1 protein (rFc Tag)



Catalog Number: Eg4453

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/μg protein, LAL method

Source:

HEK293-derived Human COL23A1 protein Gln57-Lys540 (Accession# Q86Y22-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

91522

Accession:

Q86Y22-1

Predicted Molecular Mass:

73.4 kDa

SDS-PAGE:

73-85 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μm 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

COL23A1, or Collagen Type XXIII Alpha 1 Chain, is a protein-coding gene that belongs to the transmembrane collagens, a subfamily of nonfibrillar collagens characterized by the presence of a single hydrophobic transmembrane domain. This protein plays a role in the structure and function of collagen and extracellular matrix proteins. COL23A1 has been implicated in various diseases, including Paraurethral Gland Cancer, and has been shown to be an independent prognostic factor in certain malignancies, such as clear cell renal cell carcinoma. The protein is expressed in various human tissues with biased expression in the thyroid and heart. It is involved in cellular processes such as proliferation, cell cycle progression, and cell adhesion.

References

1. Banyard J. et al. (2003) J Biol Chem. 278(23):20989-94.
2. Xu F. et al. (2017) Erratum in: Sci Rep. 8(1):6001.
3. Banyard J. et al. (2007) Clin Cancer Res. 13(9):2634-42.

Synonyms

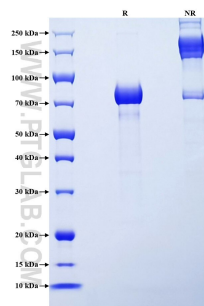
COL23, Collagen Type XXIII, Collagen alpha 1(XXIII) chain, Collagen alpha-1(XXIII) chain, collagen, type XXIII, alpha 1

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

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Purity of Recombinant Human COL23A1 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.