

For Research Use Only

Recombinant Rat Progranulin/PGRN protein (mFc Tag)



Catalog Number: Eg3240

Basic Information

Species:
Rat

Purity:
>90 %, SDS-PAGE

Tag:
mFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/μg protein, LAL method

Source:

HEK293-derived Rat Progranulin protein Thr18-Leu588 (Accession# P23785) with a mouse IgG Fc tag at the C-terminus.

GeneID:

29143

Accession:

P23785

Predicted Molecular Mass:

88.1 kDa

SDS-PAGE:

85-100 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

Progranulin, also known as Acrogranin, PCDGF, and Epithelin/Granulin Precursor, was first identified as a 593-aa secreted glycoprotein involved in the regulation of cancer progression and wound healing. It is a widely expressed glycoprotein that can undergo proteolysis to generate numerous Granulin peptides. Progranulin (PGRN) has been considered a growth factor-like molecule implicated in additional biological and pathological processes including early embryogenesis, inflammation, host defense, cartilage development and degradation.

References

1. Yazhou Cui. et al. (2019). Cytokine Growth Factor Rev. 45:53-64.
2. A Bateman. et al. (1990). J Biochem Biophys Res Commun. 173(3):1161-1168.
3. Zhiheng He. et al. (2002). Cancer Res. 62(19):5590-5596.
4. Zhiheng He. et al. (2003). Nat Med. 9(2):225-229.
5. Wei Tang. et al. (2011). Science. 22:332(6028):478-484.
6. Jing Zhu. et al. (2002). Cell. 111(6):867-878.
7. L Diaz-Cueto. et al. (2000). Dev Biol. 217(2):406-418.

Synonyms

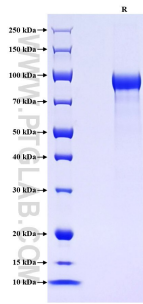
Acrogranin, Epithelin precursor, Granulin precursor, Granulin-1, Granulin-2

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

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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



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