

Recombinant Human SMR3B protein (rFc Tag) (HPLC verified)

Catalog Number: Eg3081

Basic Information

Species:
Human**Purity:**
>90 %, SDS-PAGE
>90 %, SEC-HPLC**Tag:**
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC**Endotoxin Level:**
<0.1 EU/ µg protein, LAL method**Source:**
HEK293-derived Human SMR3B protein Gln23-Pro79 (Accession# P02814) with a rabbit IgG Fc tag at the C-terminus.**GeneID:**
10879**Accession:**
P02814**Predicted Molecular Mass:**
31.8 kDa**SDS-PAGE:**
33-38 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

SMR3B is a protein with endopeptidase inhibitor activity and is involved in various cellular processes. It is overexpressed in various cancers and is a potential therapeutic target. SMR3B is predicted to have endopeptidase inhibitor activity. It is involved in cellular response to lipopolysaccharide, negative regulation of peptidase activity, and regulation of sensory perception of pain. It is located in extracellular exosomes. It is overexpressed in various cancers and has pleiotropic effects, leading to cellular characteristics such as sustained proliferation signals, replicative immortality, genomic instability and mutations, resistance to cell death, and angiogenesis. It is predominantly expressed in the salivary gland.

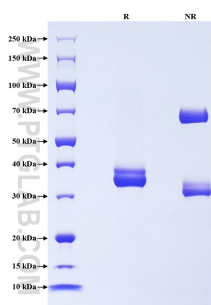
References

1. Casarin RCV, Salmon CR, et al. (2023) J Clin Periodontol. 50(7):942-951.
2. Baněčková M, Thompson LDR, et al. (2023) Am J Surg Pathol. 47(6):661-677.
3. Liu J, Zhao S, et al. (2023) Chin Med J (Engl). 136(2):184-193.
4. Skálová A, Baněčková M, et al. (2020) Am J Surg Pathol. 44(10):1295-1307.

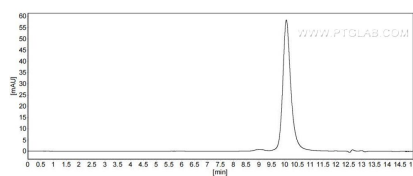
Synonyms

P B, PBII, PRL3, PROL3, Proline rich peptide P B

Selected Validation Data



Purity of Recombinant Human SMR3B 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.



The purity of Human SMR3B was greater than 90% as determined by SEC-HPLC.

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

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