

For Research Use Only

Recombinant Human A2ML1 protein (rFc Tag)



Catalog Number: Eg4523

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 A2ML1 protein Glu18-Glu1454 (Accession# A8K2U0) with a rabbit IgG Fc tag at the N-terminus.

GeneID:

144568

Accession:

A8K2U0

Predicted Molecular Mass:

186.5 kDa

SDS-PAGE:

150-250 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

A2ML1 is a monomeric protease inhibitor belonging to the A2M superfamily of protease inhibitors and complement factors. A2ML1 is abundant in the epidermal granular layer of the skin but is also found in the placenta, thymus, and testis. Similar to the functional characteristics of A2Ms, the A2ML1 protein can inhibit extracellular protease through a unique "capture" mechanism, thereby contributing significantly to epithelial cell desquamation. Moreover, A2ML1 can regulate epithelial cell homeostasis by interacting with growth factors and cytokines.

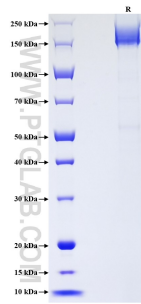
References

- 1.Nielsen, Nadia Sukusu et al. Nature communications vol. 13,1 (2022): 3033.
- 2.Zhang, Xiaoyun et al. Canadian journal of gastroenterology & hepatology vol. 2023 (2023): 5557546.

Synonyms

alpha 2 macroglobulin like 1, Alpha-2-macroglobulin-like protein 1, C3 and PZP-like alpha-2-macroglobulin domain-containing protein 9, CPAMD9, Homo sapiens (Human)

Selected Validation Data



Purity of Recombinant Human A2ML1 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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