

Recombinant mouse HE4/WFDC2 protein

Catalog Number: Eg3534

Basic Information

Species:
Mouse**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 Mouse HE4 protein Thr26-Phe174 (Accession# Q9DAU7) with a mouse IgG Fc tag at the C-terminus.

GeneID:

67701

Accession:

Q9DAU7

Predicted Molecular Mass:

42.1 kDa

SDS-PAGE:

50-60 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

Wfdc2 (Whey Acidic Protein Four Disulfide Core Domain 2) is a protease inhibitor that is highly expressed in the lung and is enriched in the nasopharynx. It is the most highly expressed family member in differentiated epithelial cells isolated from the trachea, nasal passages, and middle ear. Wfdc2 consists of 5 exons with exon 3 encoding an unstructured linker region that separates the two WFDC domains. This genomic organization appears to be restricted to the Muridae and Cricetidae families of rodents. Similar to the situation in humans, mouse Wfdc2 can be alternatively spliced to yield a number of distinct transcripts that have the potential to generate a repertoire of distinct protein isoforms.

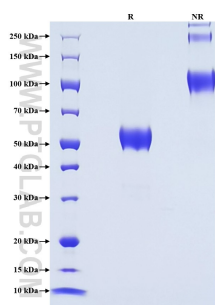
References

1. Jeong H, et al. (2021) Gastroenterology. 161(3):953-967.e15.
2. Zhang T, et al. (2020) Biochem Biophys Res Commun. 522(2):456-462.
3. Nakajima K, et al. (2019) Dis Model Mech. 12(11):dmm040139.

Synonyms

WAP domain-containing protein HE4, WAP four-disulfide core domain protein 2, Wfdc2

Selected Validation Data



Purity of Recombinant Mouse HE4 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

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