

Recombinant Human MTND protein (rFc Tag)

Catalog Number: Eg5924

Basic Information

Species:
Human**Purity:**
>85 %, SDS-PAGE**Tag:**
rFc Tag

Technical Specifications

Purity:

>85 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Human MTND protein Met1-Ala179 (Accession# Q9BV57-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

55256

Accession:

Q9BV57-1

Predicted Molecular Mass:

47.1 kDa

SDS-PAGE:

47-55 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

ADI1(acireductone dioxygenase 1) is also named as SIPL, ARD, APL1, HMFT1638, MTCBP-1, FLJ10913, MTCBP1 and belongs to the acireductone dioxygenase (ARD) family. It catalyzes the formation of formate and 2-keto-4-methylthiobutyrate (KMTB) from 1,2-dihydroxy-3-keto-5-methylthiopentene (DHK-MTPene). The downregulation of ADI1 protein expression in human prostate cancer specimens argues that ADI1 potentially inhibits the growth that occurs during prostate cancer progression(PMID:17786183). It has 2 isoforms produced by alternative splicing.

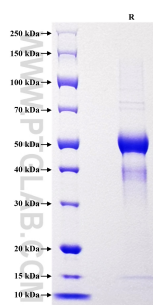
References

1. Hu, Xiaoping, et al. International Journal of Molecular Sciences 24.15 (2023): 12329.

Synonyms

ADI1, Acireductone dioxygenase, ADI 1, APL1, ARD

Selected Validation Data



Purity of Recombinant Human MTND 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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