

For Research Use Only

Recombinant Mouse CACHD1 protein (rFc Tag)



Catalog Number: Eg2855

Basic Information

Species:
Mouse

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 Mouse CACHD1 protein Asp52-Pro1109 (Accession# Q6PDJ1-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

320508

Accession:

Q6PDJ1-1

Predicted Molecular Mass:

144.1 kDa

SDS-PAGE:

140-150 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

CACHD1, or cache domain containing 1, is highly expressed in the mammalian central nervous system (CNS), with particular expression in the thalamus, hippocampus, and cerebellum. This protein is thought to be involved in the modulation of voltage-gated calcium channels, particularly the CaV3 (T-type) channels, which are important for regulating neuronal excitability. Cachd1 is also expressed in neuronal progenitors, functions downstream of asymmetric environmental signals, and influences timing of the normally asymmetric patterns of neurogenesis.

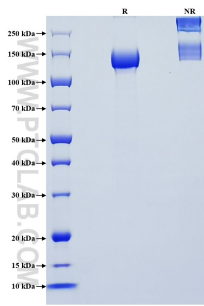
References

1. Cottrell GS. et al. (2018). J Neurosci. 38(43):9186-9201.
2. Powell GT. et al. (2024). Science. 384(6695):573-579.

Synonyms

Cachd1, Cache domain-containing protein 1, Kiaa1573, Vwcd1, VWFA and cache domain-containing protein 1

Selected Validation Data



Purity of Recombinant Mouse CACHD1 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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