

Recombinant Human CIB1 protein (rFc Tag)

Catalog Number: Eg5476

Basic Information

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

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Human CIB1 protein Gly2-Leu191 (Accession# Q99828-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

10519

Accession:

Q99828-1

Predicted Molecular Mass:

47.2 kDa

SDS-PAGE:

43-50 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

CIB1(Calcium and integrin-binding protein 1) is also named as CIB, KIP, PRKDCIP. It is an EF-hand-containing protein that binds multiple effector proteins, including the platelet α IIb β 3 integrin and several serine/threonine kinases and potentially modulates their function. It regulates platelet aggregation in hemostasis through a specific interaction with the α IIb β 3 cytoplasmic domain of platelet integrin α IIb β 3.

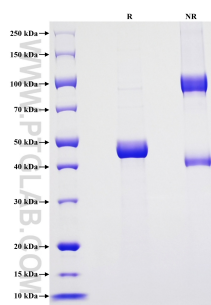
References

1. Leisner, Tina M., et al. The FASEB Journal 30.8 (2016): 2640.
2. Wang, Xianwang, et al. Cellular Physiology and Biochemistry 43.4 (2017): 1413-1424.
3. Heineke, Joerg, et al. Nature medicine 16.8 (2010): 872-879.
4. Yoon, Kyoung Wan, et al. Proceedings of the National Academy of Sciences 106.41 (2009): 17389-17394.
5. Zayed, Mohamed A., et al. Circulation research 101.11 (2007): 1185-1193.

Synonyms

Calcium- and integrin-binding protein, Calcium and integrin-binding protein 1, Calmyrin, CIB, CIBP

Selected Validation Data



Purity of Recombinant Human CIB1 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.