

Recombinant human GP1BB protein

Catalog Number: ATGP4114

PRODUCT INFORMATION

Expression system

HEK293

Domain

26-147aa

UniProt No.

P13224

NCBI Accession No.

NP_000398.1

Alternative Names

glycoprotein Ib platelet subunit beta, BDPLT1, BS, CD42C, GPIBB, GPIbbeta, Antigen CD42b-beta, GP-Ib beta, GPIb-beta, GPIbB, Platelet glycoprotein Ib beta chain

PRODUCT SPECIFICATION

Molecular Weight

14kDa (131aa)

Concentration

0.25mg/ml (determined by Absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

GP1BB, also known as glycoprotein Ib platelet subunit beta/CD42c, is a member of platelet receptor family. It is part of the GPIb-V-IX system that constitutes the receptor for von Willebrand factor (VWF), and mediates platelet adhesion in the arterial circulation. This complex is composed of GPIb alpha attached to GPIb beta and non-

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covalently complexed with GPIX and GPV. GPIb alpha chain provides the VWF binding site, and GPIb beta contributes to surface expression of the receptor and participates in transmembrane signaling through phosphorylation of its intracellular domain. Mutations in GP1BB have been associated with Bernard-Soulier syndrome, velocardiofacial syndrome and giant platelet disorder. Recombinant human GP1BB, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

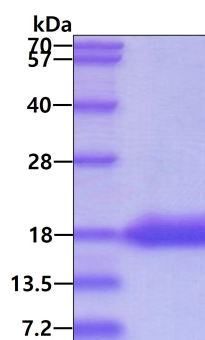
<DGS>CPAPCSC AGTLVDCGRR GLTWASLPTA FPVDTTELVL TGNNTALPP GLLDALPALR TAHLGANPWR
CDCRLVPLRA WLAGRPERAP YRDLRCVAPP ALRGRLPYL AEDELRAACA PGPLC<HHHHH H>

General References

Kenny D, et al. (2002) Blood. 99:4428-4433.
Clemetson KJ, et al. (2008) Thromb Haemost. 99:473-479.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain