Recombinant human PGD2 Synthase/PTGDS protein

Catalog Number: ATGP1010

PRODUCT INFORMATION

Expression system
E.coli

Domain
23-190aa

UniProt No.
P41222

NCBI Accession No.
NP_000945

Alternative Names
Prostaglandin-H2 D-isomerase, L-PGDS, LPGDS, PDS, PGD2, PGDS, PGDS2

PRODUCT SPECIFICATION

Molecular Weight
20.9 kDa (189aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 30% glycerol, 1mM EDTA, 0.1M NaCl

Purity
> 90% by SDS-PAGE

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
Prostaglandin-H2 D-isomerase, also known as PTGDS, is a glutathione-independent prostaglandin D synthase that catalyzes the conversion of prostaglandin H2 (PGH2) to postaglandin D2 (PGD2). It is likely to play important roles in both maturation and maintenance of the central nervous system and male reproductive system. PTGDS is the most abundant protein in the cerebral spinal fluid and recent evidence suggests that PTGDS acts as a beta-amyloid chaperone and may have a role in the deposition of Ab plaques in Alzheimer's disease. Recombinant human PTGDS protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using

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conventional chromatography techniques.

Amino acid Sequence

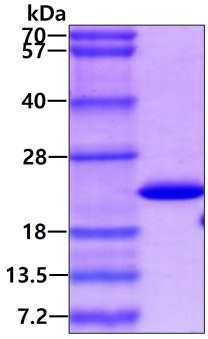
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General References

Hoffmann A., et al. (1993) J Neurochem. 61(2):451-6.
Giacomelli S., et al. (1996) Biochem Biophys Acta. 1310(3):269-76.

DATA

SDS-PAGE



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