Recombinant mouse 15-PGDH/HPGD protein

Catalog Number: ATGP3517

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-269aa

UniProt No.
Q8VCC1

NCBI Accession No.
NP_032304.2

Alternative Names
15-hydroxyprostaglandin dehydrogenase [NAD+], 15-PGDH, PGDH, PGDH1, SDR36C1, Prostaglandin dehydrogenase 1

PRODUCT SPECIFICATION

Molecular Weight
31.6 kDa (292aa)

Concentration
0.5mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 30% glycerol

Purity
> 95% 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
Hpgd, also known as Hydroxyprostaglandin dehydrogenase, is a member of the short-chain dehydrogenases/reductases family. It metabolizes prostaglandins (PGs) to render them. Prostaglandins (PGs) play a crucial role in mediating parturition events, and their synthesis and metabolism are regulated by PGH synthase and 15-hydroxy-PG dehydrogenase (PGDH), respectively. Hpgd, a COX-2 oncogene antagonist, is a TGF-beta-induced suppressor of human gastrointestinal cancers. Recombinant mouse Hpgd protein, fused to His-tag

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at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

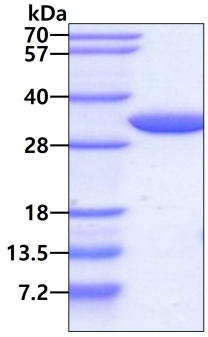
<MGSSHHHHHH SSGLVPRGSH MGS>MHVNGKV ALVTGAAQGI GKAFAEALLL HGAKVALVDW NLEAGVKCKA ALDEQFEPQK TLFVQCDVAD QKQLRDTFRK VVDHFGRLDI LVNNAGVNNE KNWEQTLQIN LVSVISGTYL GLDYMSKQNG GEGGIIINMS SLAGLMPVAQ QPVYCASKHG IIGFTRSAAM AANLMKSGVR LNVICPGFVD TPILESIEKE ENMGQYIEYK DQIKAMMKFY GVLHPSTIAN GLINLIEDDA LNGAIMKITA SKGIHFQDYD ISPLLVKAPL TS

General References

Patel FA. et al., (2003) J Clin Endocrinol Metab. 88(6):2922-33.
McKeown KJ. et al., (2003) J Clin Endocrinol Metab. 88(4):1737-41.
Yan M. et al., (2004) Proc Natl Acad Sci USA. 101(50):17468-73.

DATA

SDS-PAGE



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