Recombinant human 15-PGDH/HPGD protein

Catalog Number: ATGP0719

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-266aa

UniProt No.
P15428

NCBI Accession No.
NP_000851

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

PRODUCT SPECIFICATION

Molecular Weight
31.1 (286aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

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

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 15-PGDH, is the fundamental enzyme of prostaglandin degradation. This protein strongly reduces the biologic activity of these molecules by catalyzing the oxidation of the 15-hydroxyl group of prostaglandins to a keto group. HPGD is implicated in many physiologic and cellular processes, such as inflammation. Recombinant human HPGD protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques

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Amino acid Sequence

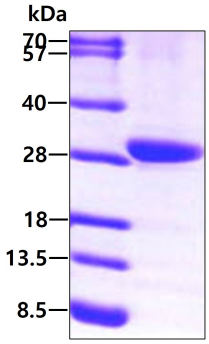
<MGSSHHHHHH SSGLVPRGSH> MHVNGKVALV TGAAQGIGRA FAEALLLKGA KVALVDWNLE AGVQCKAALD EQFEPQKTLF IQCDVADQQQ LRDTFRKVVD HFGRLDILVN NAGVNNEKNW EKTLQINLVS VISGTYLGLD YMSKQNGGEG GIIINMSSLA GLMPVAQQPV YCASKHGIVG FTRSAALAAN LMNSGVRLNA ICPGFVNTAI LESIEKEENM GQYIEYKDHI KDMIKYYGIL DPPLIANGLI TLIEDDALNG AIMKITTSKG IHFQDYDTTP FQAKTQ

General References

Han X., et al. (1995) Equine Vet. J. 27: 334-339.
Van Meir C.A., et al. (1996) Placenta 17: 291-297.

DATA

SDS-PAGE



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