

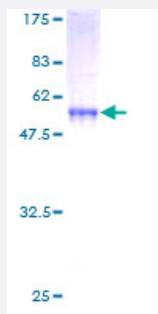
Full-Length

HPGD (Human) Recombinant Protein (P01)

Catalog # H00003248-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human HPGD full-length ORF (AAH18986, 1 a.a. - 266 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MHVNGKVALVTGAAQGIGRAFAEALLKGAVALVDWNLEAGVQCKAALDEQFEPQKTLFIQCD
VADQQQLRDTFRKVVDHFGRLDILVNNAGVNNEKNWEKTLQINLVSVISGTYLGLDYMSKQNGGE
GGIIINMSSLAGLMPVAQQPVYCASKHGIVGFTRSAALANLMNSGVRNAICPGFVNTAILESIEKE
ENMGQYIEYKDHKDMIKYYGILDPPLIANGLITLIEDDALNGAIMKITTSGIHFQDYDTTPFQAKTQ

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

55.00

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — HPGD

Entrez GeneID [3248](#)

GeneBank Accession# [BC018986](#)

Protein Accession# [AAH18986](#)

Gene Name HPGD

Gene Alias 15-PGDH, PGDH, PGDH1, SDR36C1

Gene Description hydroxyprostaglandin dehydrogenase 15-(NAD)

Omim ID [601688](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a member of the short-chain nonmetalloenzyme alcohol dehydrogenase protein family. The encoded enzyme is responsible for the metabolism of prostaglandins, which function in a variety of physiologic and cellular processes such as inflammation. Mutations in this gene result in primary autosomal recessive hypertrophic osteoarthropathy and cranioosteoarthropathy. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations 15-hydroxy prostaglandin dehydrogenase|15-hydroxyprostaglandin dehydrogenase|NAD+-dependent 15-hydroxyprostaglandin dehydrogenase|short chain dehydrogenase/reductase family 36C, member 1

Publication Reference

- [NAD⁺-Dependent 15-Hydroxyprostaglandin Dehydrogenase Regulates Levels of Bioactive Lipids in Non-Small Cell Lung Cancer.](#)

Hughes D, Otani T, Yang P, Newman RA, Yantiss RK, Altorki NK, Port JL, Yan M, Markowitz SD, Mazumdar M, Tai HH, Subbaramaiah K, Dannenberg AJ.

Cancer Prevention Research (Philadelphia, Pa.) 2008 Sep; 1(4):241.

Disease

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- [Alzheimer disease](#)
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- [Chorioamnionitis](#)
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