

Recombinant Human HPGD Protein, GST-tagged

Cat. No. HPGD-063H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active recombinant N-terminal GST-tagged full length human HPGD protein (1-266) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-266
Description	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.
Molecular Mass	55 kDa (29 kDa 15-hydroxy PGDH; 26 kDa GST tag)
Purity	≥90% as determined by SDS-PAGE
Unit Definition	One unit is defined as the amount of enzyme required to produce 1 nmol of NADH per minute at 37 centigrade in 50 mM Tris-HCl, pH 7.5, 0.1 mM DTT, 50 μM PGE2, and 1 mM NAD+.
Stability	≥ 6 months

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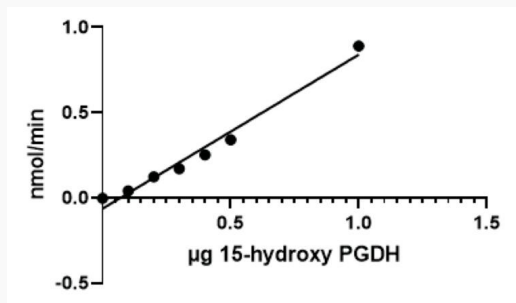
Storage	At -80 centigrade.
Storage Buffer	50 mM Tris-HCl, pH 7.5, containing 1 mM EDTA, 1 mM DTT, and 30% glycerol
GENE INFORMATION	
Gene Name	HPGD 15-hydroxyprostaglandin dehydrogenase [Homo sapiens (human)]
Official Symbol	HPGD
Synonyms	HPGD; 15-hydroxyprostaglandin dehydrogenase; PGDH; PGDH1; PHOAR1; 15-PGDH; SDR36C1; 15-hydroxyprostaglandin dehydrogenase [NAD(+)]; 15-hydroxyprostaglandin dehydrogenase (NAD(+)); NAD+-dependent 15-hydroxyprostaglandin dehydrogenase; hydroxyprostaglandin dehydrogenase 15-(NAD); prostaglandin dehydrogenase 1; short chain dehydrogenase/reductase family 36C member 1; EC 1.1.1.141
Gene ID	3248
mRNA Refseq	NM_000860
Protein Refseq	NP_000851
MIM	601688
UniProt ID	P15428

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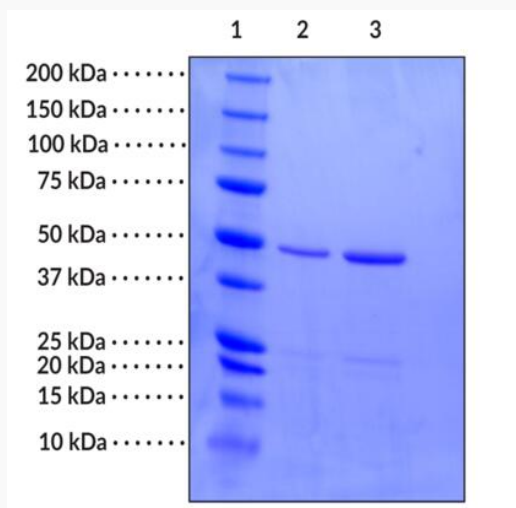
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Activity of 15-hydroxy PGDH



15-OH PGDH activity was determined using 50 µM PGE2 AND 10 µM NAD+.

SDS-PAGE analysis of HPGD



Lane 1: MW Markers

Lane 2: 15-hydroxy PGDH (2 µg)

Lane 3: 15-hydroxy PGDH (4 µg)