

Recombinant Human HPGD, His-tagged

Cat. No. HPGD-31206TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Prostaglandin dehydrogenase 1 with an N terminal His tag; 286 amino acids with a predicted MWt 31.1kDa including tag.
Species	Human
Source	E.coli
ProteinLength	266 amino acids
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.
Conjugation	HIS
Molecular Weight	31.100kDa inclusive of tags
Tissue specificity	Detected in colon epithelium (at protein level).
Form	Liquid
Purity	>95% by SDS-PAGE

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Storage buffer	Preservative: None Constituents: 20% Glycerol, 0.1M Sodium chloride, 20mM Tris HCl, 1mM DTT, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHSSGLVPRGSHMHVNGKVALVTGAAQGIGRAFAEALLLKGAQVALV DWNLEAGVQCKAALDEQFEPQKTLFIQCDVADQQQLRDTFRKVVDHFGRDLILVNN AGVNNEKNWEKTLQINLVSVISGTYLGLDYMSKQNGGEGGIIINMSSLAGLMPVAQQ PVYCASKHGIVGFTRSAALAANLMNSGVRLNAICPGFVNTAILESIEKEENMGQYIEY KDHIKDMIKYYGILDPPLIANGILITLIEDDALNGAIMKITTSKGIHFQDYDTTPFQAKTQ
Sequence Similarities	Belongs to the short-chain dehydrogenases/reductases (SDR) family.

GENE INFORMATION

Gene Name	HPGD hydroxyprostaglandin dehydrogenase 15-(NAD) [Homo sapiens]
Official Symbol	HPGD
Synonyms	HPGD; hydroxyprostaglandin dehydrogenase 15-(NAD); 15-hydroxyprostaglandin dehydrogenase [NAD+]; SDR36C1; short chain dehydrogenase/reductase family 36C; member 1;
Gene ID	3248
mRNA Refseq	NM_000860
Protein Refseq	NP_000851

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MIM	601688
Uniprot ID	P15428
Chromosome Location	4q34-q35
Pathway	Prostaglandin Synthesis and Regulation, organism-specific biosystem; Transcriptional misregulation in cancers, organism-specific biosystem; Transcriptional misregulation in cancers, conserved biosystem;
Function	15-hydroxyprostaglandin dehydrogenase (NAD+) activity; 15-hydroxyprostaglandin dehydrogenase (NAD+) activity; NAD binding; NAD+ binding; catalytic activity;

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