

15-PGDH/HPGD Protein, Human (His)

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| Cat. No.: | HY-P75547 |
| Synonyms: | 15-hydroxyprostaglandin dehydrogenase [NAD(+)]; HPGD; PGDH1; SDR36C1 |
| Species: | Human |
| Source: | E. coli |
| Accession: | NP_000851.2 (M1-Q266) |
| Gene ID: | 3248 |
| Molecular Weight: | Approximately 27 kDa |

PROPERTIES

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| Biological Activity | The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet. |
| Appearance | Solution. |
| Formulation | Supplied as a 0.2 µm filtered solution of 50 mM Tris, 100 mM NaCl, 0.5 mM DTT, 10% glycerol, pH 7.5. |
| Endotoxin Level | <1 EU/µg, determined by LAL method. |
| Reconstitution | N/A. |
| Storage & Stability | Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles. |
| Shipping | Shipping with dry ice. |

DESCRIPTION

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| Background | 15-PGDH/HPGD Protein, a member of the short-chain nonmetalloenzyme alcohol dehydrogenase protein family, plays a crucial role in the metabolism of prostaglandins, contributing to various physiological and cellular processes, including inflammation. Mutations in this gene are associated with primary autosomal recessive hypertrophic osteoarthropathy and craniosteoarthropathy, underscoring its significance in maintaining normal skeletal development. The gene exhibits multiple transcript variants, encoding different isoforms, adding to the functional diversity of the encoded enzyme. Notably, 15-PGDH/HPGD demonstrates biased expression, with heightened levels observed in the urinary bladder (RPKM 176.8), stomach (RPKM 67.9), and 11 other tissues, suggesting its specialized roles in these tissues and its potential involvement in diverse physiological contexts. |
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Caution: Product has not been fully validated for medical applications. For research use only.

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