
Product Data Sheet

Product Name: HPGD Human
 Cat. No.: GP21804
 Batch No.: 1

Product Data

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|---------------------|--|--------------------|-------------------------|
| Purity | >98% | Source | Escherichia Coli. |
| Physical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | GDH1; SDR36C1; 15-PGDH; PGDH; Prostaglandin dehydrogenase 1; hydroxyprostaglandin dehydrogenase 15-(NAD) | | |
| Amino Acid Sequence | MGSSHHHHHH SSGLVPRGSH MHVNGKVALV TGAAQGIGRA FAEALLLKGA KVALVDWNLE AGVQCKAALD EQFEPQKTLF IQCDVADQQQ LRDTFRKVVD HFGRLDILVN NAGVNNEKNW EKTLQINLVS VISGTYLGLD YMSKQNGGEG GIIINMSSLA GLMPVAQQPV YCASKHGIVG FTRSAALAN LMNSGVRLNA ICPGFVNTAI LESIEKEENM GQYIEYKDHI KMIKYYGIL DPPLIANGLI TLIEDDALNG AIMKITTSKG IHFQDYDTTP FQAKTQ. | | |
| Formulation | The HPGD protein solution (0.5mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0) 0.1M NaCl, 1mM DTT and 20% glycerol. | | |

Introduction

HPGD is the essential enzyme of prostaglandin degradation. 15-PGDH protein strongly decreases the biologic activity of these molecules by catalyzing the oxidation of the 15-hydroxyl group of prostaglandins to a keto group. GDH1 is involved in numerous physiologic and cellular processes, for instance inflammation.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.

Background

HPGD Recombinant E.coli produced in E.Coli is a single, non-glycosylated polypeptide chain containing 286 amino acids (1-266a.a.) and having a molecular mass of 31.1 kDa. HPGD is fused to a 20 amino acids His-Tag at N-terminus and purified by proprietary

Caution: Product has not been fully validated for medical applications. For research use only.

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chromatographic techniques.

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