

**HPGD, 1-266aa, Human, His tag, E.coli**

**Cat.NO.: TP02492**

3th Edition

**Synonyms:**15-hydroxyprostaglandin dehydrogenase [NAD+], 15-PGDH, PGDH, PGDH1, SDR36C1, Prostaglandin dehydrogenase 1

**Description:**HPGD, also known as 15-PGDH, is the fundamental enzyme of prostaglandin degradation. This protein strongly reduces the biologic activity of these molecules by catalyzing the oxidation of the 15-hydroxyl group of prostaglandins to a keto group. HPGD is implicated in many physiologic and cellular processes, such as inflammation. Recombinant human HPGD protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:**Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 0.1M NaCl,1mM DTT

**Molecular Weight:**31.1 (286aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMHVNGKVALVTGAAQGIGRAFAEALLLKGAQVALVDWNLEAGVQCKAALDEQFE  
PQKTLFIQCDVADQQQLRDTFRKVVDHFGRLDILVNNAGVNNEKNWEKTLQINLVSVISGTYLGLDYMSKQNGGEG  
GIIINMSSLAGLMPVAQQPVYCAKSHGIVGFTRSAALANLMNSGVRLNAICPGFVNTAILESIEKEENMGQYIEYKD  
HIKDMIKYYGILDPLIANGLITLIEDDALNGAIMKITTSGIHFQDYDTTPFQAKTQ

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.