

Datasheet for ABIN7320244
HPGD Protein (His tag)



[Go to Product page](#)

1 Image

Overview

Quantity:	50 µg
Target:	HPGD
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This HPGD protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse HPGD/15-PGDH Protein (His Tag)(Active)
Sequence:	Met 1-Ser 269
Characteristics:	A DNA sequence encoding the mouse HPGD (Q8VCC1) (Met 1-Ser 269) was expressed, with a polyhistidine tag at the C-terminus.
Purity:	> 90 % as determined by SDS-PAGE
Biological Activity Comment:	Measured by its ability to bind Rhesus ErbB3-His in functional Elisa.

Target Details

Target:	HPGD
Alternative Name:	HPGD/15-PGDH (HPGD Products)
Background:	Background: 15-hydroxyprostaglandin dehydrogenase [NAD ⁺], also known as Prostaglandin

Target Details

dehydrogenase 1, HPGD, and PGDH1, is a member of the short-chain dehydrogenases/reductases (SDR) family. Prostaglandins (PGs) play a key role in the onset of labor in many species and regulate uterine contractility and cervical dilatation. Therefore, the regulation of prostaglandin output by PG synthesizing and metabolizing enzymes in the human myometrium may determine uterine activity patterns in human labor both at preterm and at term. Prostaglandin dehydrogenase (PGDH) metabolizes prostaglandins (PGs) to render them inactive. HPGD is down-regulated by cortisol, dexamethasone and betamethasone and down-regulated in colon cancer. It is up-regulated by TGFB1. HPGD contributes to the regulation of events that are under the control of prostaglandin levels. HPGD catalyzes the NAD-dependent dehydrogenation of lipoxin A4 to form 15-oxo-lipoxin A4. and inhibits in vivo proliferation of colon cancer cells. Defects in HPGD are the cause of primary hypertrophic osteoarthropathy autosomal recessive (PHOAR) , craniosteoarthropathy (COA), and isolated congenital nail clubbing.

Synonym: 15-PGDH;AV026552

Molecular Weight: 30.6 kDa

UniProt: [Q8VCC1](#)

Application Details

Restrictions: For Research Use only

Handling

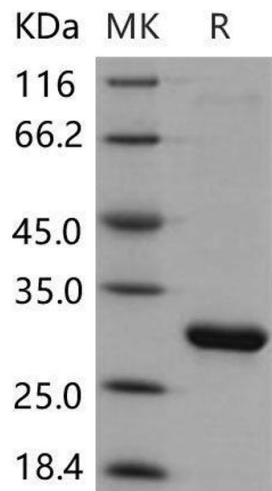
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 8.0, 20 % glycerol

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.