

Recombinant Mouse HPGD/15-PGDH Protein (His Tag)

Catalog No. PKSM040631

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms 15-PGDH;AV026552

Species Mouse
Expression Host E.coli

SequenceMet 1-Ser 269AccessionQ8VCC1Calculated Molecular Weight30.6 kDaObserved molecular weight30 kDaTagC-His

Bioactivity Measured by its ability to bind Rhesus ErbB3-His in functional Elisa.

Properties

Purity > 90 % as determined by reducing SDS-PAGE.

Endotoxin Please contact us for more information.

Storage 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.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 8.0, 20% glycerol

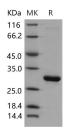
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

Background

15-hydroxyprostaglandin dehydrogenase [NAD+], also known as Prostaglandin 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

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of labor inmany species and regulate uterine contractility and cervicaldilatation. Therefore, the regulation of prostaglandin outputby PG synthesizing and metabolizing enzymes in the human myometrium may determine uterine activitypatterns 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 osteoathropathy autosomal recessive (PHOAR), cranioosteoarthropathy (COA), and isolated congenital nail clubbing.

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