Recombinant Protein Technical Manual

Recombinant Human 15-PGDH Protein (His Tag)

RPES3031

Product Data:

Product SKU: RPES3031

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: NP_000851.2

Protein Information:

Molecular Mass: 30.0 kDa

AP Molecular Mass: 29 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at<-20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM HEPES,150mM NaCl,pH7.4.

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

Application:

Synonyms: 15-Hydroxyprostaglandin Dehydrogenase [NAD(+)]; 15-PGDH; Prostaglandin Dehydrogenase 1; HPGD; PGDH1;PGDH;PHOAR1;SDR36C1

Immunogen Information:

Sequence: Met 1-Gln266

Background:

15-hydroxyprostaglandin dehydrogenase [NAD(+)], also known as Prostaglandin dehydrogenase 1, 15-PGDH, HPGD and PGDH1, belongs to the short-chain dehydrogenases/reductases (SDR) family. HPGD localizes to the cytoplasm and can be found in colon epithelium, existing as a homodimer. HPGD catalyzes the NAD-dependent dehydrogenation of lipoxin A4 to form 15-oxo-lipoxin A4. HPGD is down-regulated by cortisol, dexamethasone and betamethasone, up-regulated by TGFB1. HPGD inhibits in vivo proliferation of colon cancer cells. HPGD is the key enzyme for the inactivation of prostaglandins, and thus regulates processes such as inflammation or proliferation.