

15-PGDH/HPGD Protein, Human (HEK293, His)

Cat. No.:	HY-P70297
Synonyms:	rHu15-hydroxyprostaglandin dehydrogenase [NAD(+)]/HPGD, His; 15-Hydroxyprostaglandin Dehydrogenase [NAD(+)]; 15-PGDH; Prostaglandin Dehydrogenase 1; HPGD; PGDH1
Species:	Human
Source:	HEK293
Accession:	P15428 (M1-Q266)
Gene ID:	3248
Molecular Weight:	Approximately 30.0 kDa

PROPERTIES

AA Sequence	<pre> MHVNGKVALV TGA AQGIGRA FAEALLKGA KVALVDWNLE AGVQCKAALD EQFEPQKTLF IQCDVADQQQ LRDTFRKVVD HFGRLDILVN NAGVNNEKNW ERTLQINLVS VISGTYLGLD YMSKQNGGEG GIIINMSSLA GLMPVAQQPV YCASKHGI VG FTRSAALAAN LMNSGVRLNA ICPGFVNTAI LESIEKEENM GQYIEYKDHI KDMIKYYGIL DPPLIANGLI TLIEDDALNG AIMKITTSKG IHFQDYDTTP FQAKTQ </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM HEPES, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	15-PGDH/HPGD, a key enzyme in the degradation of prostaglandins, including prostaglandin E2 (PGE2), can catalyze the conversion of 15-hydroxy group of PGE2 into a 15-keto group to produce a biologically inactive PG and antagonize the function of prostaglandin synthase COX-2 ^[1] .
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REFERENCES

[1]. Shuying Miao, et al. Pharmacologic Blockade of 15-PGDH Protects Against Acute Renal Injury Induced by LPS in Mice. *Front Physiol.* 2020 Mar 13;11:138.

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

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