

15-PGDH/HPGD Protein, Human (HEK 293, 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:	HEK 293
Accession:	P15428 (M1-Q266)
Gene ID:	3248
Molecular Weight:	Approximately 29.0 kDa

PROPERTIES

AA Sequence	<pre>M H V N G K V A L V T G A A Q G I G R A F A E A L L L K G A K V A L V D W N L E A G V Q C K A A L D E Q F E P Q K T L F I Q C D V A D Q Q Q L R D T F R K V V D H F G R L D I L V N N A G V N N E K N W E K T L Q I N L V S V I S G T Y L G L D Y M S K Q N G G E G G I I I N M S S L A G L M P V A Q Q P V Y C A S K H G I V G F T R S A A L A A N L M N S G V R L N A I C P G F V N T A I L E S I E K E E N M G Q Y I E Y K D H I K D M I K Y Y G I L D P P L I A N G L I T L I E D D A L N G A I M K I T T S K G I H F Q D Y D T T P F Q A K T Q</pre>
Biological Activity	Data is not available.
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. 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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