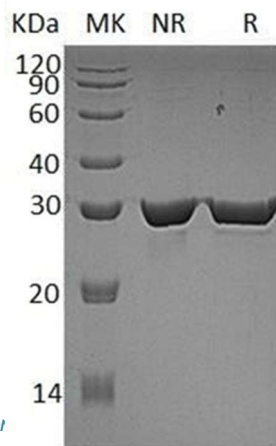



Recombinant Human HPGD

Catalog No: C848

Description	Recombinant Human 15-Hydroxyprostaglandin Dehydrogenase [NAD(+)]/HPGD is produced by our Mammalian expression system and the target gene encoding Met1-Gln266 is expressed with a 6His tag at the C-terminus.		
Source	Human Cells		
Alternative name	15-Hydroxyprostaglandin Dehydrogenase [NAD(+)]; 15-PGDH; Prostaglandin Dehydrogenase 1; HPGD; PGDH1		
Accession No.	P15428		
Formulation	Supplied as a 0.2 μm filtered solution of 20mM HEPES,150mM NaCl,pH7.4. Always centrifuge tubes before opening. Do not mix by vortex or pipetting.		
Reconstitution	It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.		
Quality Control	Purity:	Greater than 95% as determined by reducing SDS-PAGE.	
	Endotoxin:	Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.	
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.		
Storage	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.		
Amino Acid Sequence	MHVNGKVALVTGAAQGIGRAFAEALLKGAVALVDWNLEAGVQCKAALDEQFEPQKTLFIQCDVADQQQLRDTFRKVVVDHFGRLDILVNNAGVNNNEKNWEKTLQINLVSVISGYTLGLDYMSKQNGGEGGGIINMSSLAGLMPVAQQPVYCAASKHGIVGFTRSAALAANLMNSGVRLNAICPGFVNTAILESIEKEENMGQYIEYKDHIKDMIKYYGILDPPLIANGLITLIEDDALNGAIMKITTSKGI HFQDYDTTPFQAKTQVDHHHHHHH		
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.		
SDS-Page			
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