

Product datasheet for **TP316795**

Prostaglandin D Synthase (PTGDS) (NM_000954) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human prostaglandin D2 synthase 21kDa (brain) (PTGDS), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC216795 representing NM_000954 Red =Cloning site Green =Tags(s)
	 MATHHTLWMGLALLGVLGDLQAPEAQSVQPNFQQDKFLGRWFSAGLASNSSWLREKKAALSMCKSVVA PATDGGNLNSTFLRKNQCETRTMLLPAGSLGYSYRSPHWGSTYSVSWETDYDQYALLYSQGSKGPG EDFRMATLYSRTQTPRAELKEKFTAFCKAQGFTEDTIVFLPQTDKCMTEQ TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	20.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_000945</u>
Locus ID:	5730
UniProt ID:	<u>P41222</u>



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RefSeq Size: 837

Cytogenetics: 9q34.3

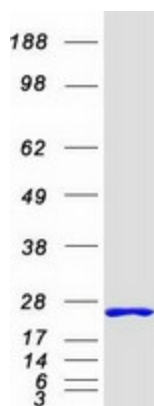
RefSeq ORF: 570

Synonyms: L-PGDS; LPGDS; PDS; PGD2; PGDS; PGDS2

Summary: The protein encoded by this gene is a glutathione-independent prostaglandin D synthase that catalyzes the conversion of prostaglandin H₂ (PGH₂) to prostaglandin D₂ (PGD₂). PGD₂ functions as a neuromodulator as well as a trophic factor in the central nervous system. PGD₂ is also involved in smooth muscle contraction/relaxation and is a potent inhibitor of platelet aggregation. This gene is preferentially expressed in brain. Studies with transgenic mice overexpressing this gene suggest that this gene may be also involved in the regulation of non-rapid eye movement sleep. [provided by RefSeq, Jul 2008]

Protein Pathways: Arachidonic acid metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified PTGDS protein (Cat# TP316795). The protein was produced from HEK293T cells transfected with PTGDS cDNA clone (Cat# [RC216795]) using MegaTran 2.0 (Cat# [TT210002]).