

Product datasheet for TP316795SE

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

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human prostaglandin D2 synthase 21kDa (brain) (PTGDS), secretory expressed in HEK293T cells, 20ug
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC216795 representing NM_000954 Red=Cloning site Green=Tags(s)
	MATHHTLWMGLALLGVLGDLQAAPEAQVSVQPNFQQDKFLGRWFSAGLASNSSWLREKKAALSMCKSWA PATDGGNLNSTFLRKNQCETRTMLLQPAGSLGYSYRSPHWGSTYSVSVWETDYDQYALLYSQGSKGPG EDFRMATLYSRTQTPRAELKEKFTAFCKAQGFEDTIVFLPQTDKCMTEQ
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	22.3 kDa
Concentration:	>50 ug/mL as determined by microplate Bradford method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25mM Tris-HCl, pH7.3, 100mM glycine, 10% glycerol
Note:	For culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for at least 1 year from receipt of products under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_000945
Locus ID:	5730
UniProt ID:	P41222 , A0A024R8G3
RefSeq Size:	837
Cytogenetics:	9q34.3



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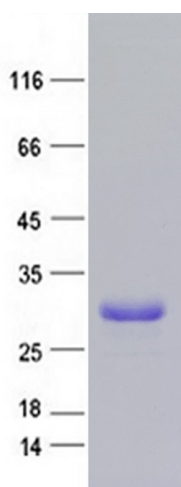
RefSeq ORF: 570

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 #TP316795SE). The protein was produced from mammalian cells transfected with PTGDS cDNA clone (Cat #[RC216795]).