

Product datasheet for PH316795

Prostaglandin D Synthase (PTGDS) (NM_000954) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PTGDS MS Standard C13 and N15-labeled recombinant protein (NP_000945)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC216795
Predicted MW:	20.8 kDa
Protein Sequence:	>RC216795 representing NM_000954 Red=Cloning site Green=Tags(s) MATHHTLWMGLALLGVLGDLQAAPAEQVSVQPNFQQDKFLGRWFSAGLASNSSWLREKKAALSMCKSVVA PATDGGLNLTSTFLRKNQCETRTMLLQPAGSLGSYSYRSPHWGSTYSVSVVETDYDQYALLYSQGSKGPG EDFRMATLYSRTQTPRAELKEKFTAFCKAQGFTEDTIVFLPQTDKCMTEQ TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000945
RefSeq Size:	837
RefSeq ORF:	570
Synonyms:	L-PGDS; LPGDS; PDS; PGD2; PGDS; PGDS2
Locus ID:	5730
UniProt ID:	P41222 , A0A024R8G3



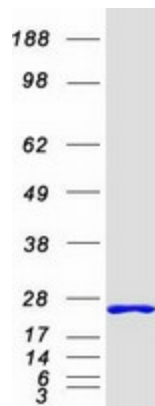
[View online »](#)

Cytogenetics: 9q34.3

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]).