

Recombinant Human PTGDS Protein, His-tagged

Cat. No. PTGDS-316H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTGDS fused with His tag at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	23-190 a.a.
Description	The protein encoded by this gene is a glutathione-independent prostaglandin D synthase that catalyzes the conversion of prostaglandin H2 (PGH2) to postaglandin 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.
Form	Supplied as a 0.2 μ M filtered solution of 20mM TrisHCl, 150mM NaCl, 10%Glycerol, pH7.5
Molecular Mass	19.7kD
Identity	Endotoxin level is <0.1 ng/g of protein (<1EU/g).

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AA Sequence	APEAQVSVQPNFQQDKFLGRWFSAGLASNSSWLREKKAALSMCKSVVAPATDGGL NLTSTFLRKNQCETRTMLLQPAGSLGSSYRSPHWGSTYSVSVVETDQYALLY QGSKGPGEDFRMATLYSRTQTPRAELKEKFTAFCKAQGFTEDTIVFLPQTDKCMTE QVDHHHHHH
Purity	>95% as determined by SDS-PAGE and Coomassie blue staining
GENE INFORMATION	
Gene Name	PTGDS prostaglandin D2 synthase 21kDa (brain) [Homo sapiens]
Official Symbol	PTGDS
Synonyms	PTGDS; prostaglandin D2 synthase 21kDa (brain); prostaglandin D2 synthase (21kD, brain); prostaglandin-H2 D-isomerase; L PGDS; lipocalin type prostaglandin D synthase; PGDS; cerebrin-28; PGD2 synthase; beta-trace protein; prostaglandin D synthase; prostaglandin-D2 synthase; glutathione-independent PGD synthase; glutathione-independent PGD synthetase; lipocalin-type prostaglandin D synthase; lipocalin-type prostaglandin-D synthase; PDS; PGD2; LPGDS; PGDS2; L-PGDS;
Gene ID	5730
mRNA Refseq	NM_000954
Protein Refseq	NP_000945
MIM	176803
UniProt ID	P41222

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