

Recombinant Human PTGDS Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PTGDS-993H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PTGDS MS Standard C13 and N15-labeled recombinant protein (NP_000945) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	20.8 kDa
AA Sequence	MATHHTLWMGLALLGVLGDLQAAPEAQVSVQPNFQQDKFLGRWFSAGLASNSSW LREKKAALSMCKSVVAPATDGGLNLTSTFLRKNQCETRTMLLQPAGSLGSYSYRSP HWGSTYSVSVVETDYDQYALLYSQGSKGPGEDFRMATLYSRTQTPRAELKEKFTAF CKAQGFTEdTIVFLPQTDKCMTEQTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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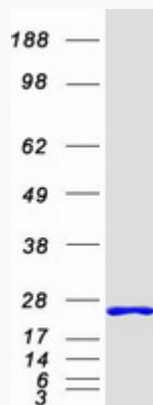
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Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
GENE INFORMATION	
Gene Name	PTGDS prostaglandin D2 synthase [Homo sapiens (human)]
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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SDS-PAGE

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