

## Product datasheet for **AR09950PU-L**

### PTGDS (23-190, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	PTGDS (23-190, His-tag) human recombinant protein, 0.25 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH</u> <u>SSGLVPRGSH</u> <u>MAPEAQVSVQ</u> PNFQQDKFLG RWFSAGLASN SSWLREKAA LSMCKSVVAP ATDGGLNLTS TFLRKNQCET RTMLLPAGS LGSYSYRSPH WGSTYSVSVV ETDYDQYALL YSQGSKGPGE DFRMATLYSR TQTPRAELKE KFTAFCKAQQ FTEDTIVFLP QTDKCMTEQ
Tag:	His-tag
Predicted MW:	20.9 kDa
Concentration:	lot specific
Purity:	>90%
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 30% glycerol, 1 mM EDTA, 0.1M NaCl
Preparation:	Liquid purified protein
Protein Description:	Recombinant human PTGDS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_000945</u>
Locus ID:	5730
UniProt ID:	<u>P41222</u> , <u>A0A024R8G3</u>
Cytogenetics:	9q34.3
Synonyms:	L-PGDS; LPGDS; PDS; PGD2; PGDS; PGDS2



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**Summary:**

The protein encoded by this gene is a glutathione-independent prostaglandin D synthase that catalyzes the conversion of prostaglandin H<sub>2</sub> (PGH<sub>2</sub>) to postaglandin D<sub>2</sub> (PGD<sub>2</sub>). PGD<sub>2</sub> functions as a neuromodulator as well as a trophic factor in the central nervous system. PGD<sub>2</sub> 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:**