

Recombinant Human Hematopoietic Prostaglandin D Synthase, His-tagged

Cat. No. HPGDS-2402H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanHPGDS protein, fused to His-tag at N-terminus, was expressed in E.coli andpurified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	HPGDS, also known asGSTS, is a sigma class glutathione-S-transferase family member. The enzymecatalyzes the conversion of PGH2 to PGD2 and plays a role in the productionof prostanoids in the immune system and mast cells. The presence of thisenzyme can be used to identify the differentiation stage of humanmegakaryocytes
Form	Liquid. 20mMTris-HCl buffer (pH8.0) containing 10% glycerol 0.15M NaCl,1mM DTT
Molecular Weight	25.9 kDa (223aa),confirmed by MALDI-TOF
Purity	> 95% by SDS -PAGE
Concentration	1 mg/ml (determinedby Bradford assay)
Sequences of aminoacids	MGSSHHHHHHSSGLVPRGSH MGSHPNYKL TYFNMRGRAE IIRYIFAYLD IQYEDHRIEQ ADWPEIKSTL PFGKIPILEVDGLTLHQSLAIARYLTKNTD LAGNTEMEQC HVDAIVDTLD DFMSCFPWAE KKQDVKEQMF NELLTYNAPHLMQDLDTYLG GREWLIGNSV TWADFYWEIC STLLVFKPD

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LLDNHPRLVT LRKKVQAIPA VANWIKRRPQTKL

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles

GENE INFORMATION

Gene Name

HPGDS hematopoietic prostaglandin D synthase [Homo sapiens]

Official Symbol

HPGDS

Synonyms

HPGDS; hematopoietic prostaglandin D synthase; glutathione S transferase sigma; GSTS; H PGDS; PGDS

Gene ID

27306

mRNA Refseq

NM_014485

Protein Refseq

NP_055300

MIM

602598

Uniprot ID

O60760

**Chromosome
Location**

4q22.2

Pathway

Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem

Function

calcium ion binding; glutathione transferase activity; isomerase activity; magnesium ion binding; prostaglandin-D synthase activity

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