

Recombinant Human Hematopoietic Prostaglandin D Synthase, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human HPGDS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	HPGDS, also known as GSTS, is a sigma class glutathione-S-transferase family member. The enzyme catalyzes the conversion of PGH ₂ to PGD ₂ and plays a role in the production of prostanoids in the immune system and mast cells. The presence of this enzyme can be used to identify the differentiation stage of human megakaryocytes
Form	Liquid. 20mM Tris-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 (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSH MGSHPNYKL TYFNMRGRAE IIRYIFAYLD IQYEDHRIEQ ADWPEIKSTL PFGKPILEVDGLTLHQSLAIARYLTKNTD LAGNTEMEQC HVDAIVDTLD DFMSCFPWAE KKQDVKEQMF NELLYNAPHLMQDLDTYLG 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 P GDS; 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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