

## Recombinant Human HPGDS Protein, His-tagged

**Cat. No.** HPGDS-55H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human HPGDS protein with a N-terminal His-tag was expressed in E. coli.                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | Prostaglandin-D synthase is a sigma class glutathione-S-transferase family member. The enzyme catalyzes the conversion of PGH2 to PGD2 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. |
| <b>Molecular Mass</b>   | 24.3 kDa                                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>           | ≥95% estimated by SDS-PAGE                                                                                                                                                                                                                                                                                                           |
| <b>Unit Definition</b>  | One unit of enzyme produces 1 μmole of PGD2 per minute at 25 centigrade in 100 mM Tris-HCl, pH 8.0, 1 mM GSH, 1 mM magnesium chloride and 40 μM PGH2.                                                                                                                                                                                |
| <b>Stability</b>        | ≥ 1 year                                                                                                                                                                                                                                                                                                                             |
| <b>Storage</b>          | Store it at -80 centigrade                                                                                                                                                                                                                                                                                                           |
| <b>Storage Buffer</b>   | 50 mM sodium phosphate, pH 7.2, containing 20% glycerol, 100 mM sodium chloride, 1 mM DTT, and 0.5 mM EDTA                                                                                                                                                                                                                           |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

## GENE INFORMATION

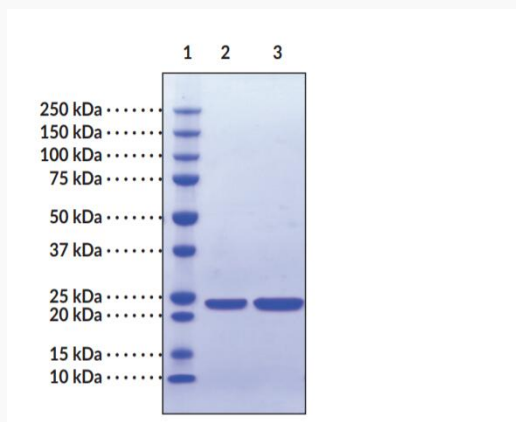
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | HPGDS hematopoietic prostaglandin D synthase [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                                                                  |
| <b>Official Symbol</b> | HPGDS                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>        | HPGDS; hematopoietic prostaglandin D synthase; GSTS; PGD2; PGDS; GSTS1; GSTS1-1; hematopoietic prostaglandin D synthase; GST class-sigma; epididymis secretory sperm binding protein; glutathione S-transferase sigma; glutathione-dependent PGD synthase; glutathione-dependent PGD synthetase; glutathione-requiring prostaglandin D synthase; hematopoietic prostaglandin D2 synthase; prostaglandin-H2 D-isomerase |
| <b>Gene ID</b>         | 27306                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>     | NM_014485                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Protein Refseq</b>  | NP_055300                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>MIM</b>             | 602598                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>UniProt ID</b>      | O60760                                                                                                                                                                                                                                                                                                                                                                                                                 |

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## SDS-PAGE Analysis of HPGDS



Lane 1: MW Markers; Lane 2: hH-PGDS (2  $\mu$ g); Lane 3: hH-PGDS (4  $\mu$ g).  
Representative gel image shown; actual purity may vary between each batch.

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