

# Product information

## HPGDS, 1-199 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1557

**Full name:** Hematopoietic prostaglandin D synthase

**NCBI Accession No.:** NP\_055300

**Synonym:** GSTS, PGDS

**Description:** HPGDS, also known as GSTS, is a sigma class glutathione-S-transferase family member. The enzyme catalyzes the conversion of PGH<sub>2</sub> to PGD<sub>2</sub> 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. Recombinant human HPGDS protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

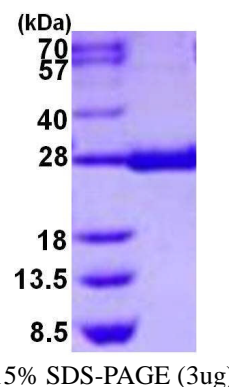
**Form:** Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol

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:**

MGSSHHHHHH SSGLVPRGSH MGSHPNYKL TYFNMRGRAE IIRYIFAYLD IQYEDHRIEQ ADWPEIKSTL PFGKIPILEV DGLTLHQSLA  
IARYLTKNTD LAGNTEMEQC HVDAIVDTLD DFMSCFPWAE KKQDVKEQMF NELLTYNAPH LMQDLDTYLG GREWLIGNSV TWADFYWEIC  
STLLVFKPD LLDNHPRLVT LRKKVQAIPA VANWIKRRPQ TKL

**General references:**

Welter, H., *et al.* (2011) *Fertil. Steril.* 96 (2), 309-313

Uchida, Y., *et al.* (2010) *J. Inorg. Biochem.* 104 (3), 331-340

**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.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**