

Recombinant human Hematopoietic Prostaglandin D Synthase/HPGDS protein

Catalog Number: ATGP1557

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-199aa

UniProt No.

O60760

NCBI Accession No.

NP_055300

Alternative Names

Hematopoietic prostaglandin D synthase, GSTS, PGDS, H-PGDS, PGD2, GSTS1-1, GSTS1

PRODUCT SPECIFICATION

Molecular Weight

25.9 kDa (223aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.15M NaCl, 1mM DTT

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

HPGDS, also known as GSTS, 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. Recombinant human HPGDS protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSH>MPNYKL TYFNMRGRAE IIRYIFAYLD IQYEDHRIEQ ADWPEIKSTL PFGKIPILEV
DGLTLHQSLA IARYLTKNTD LAGNTEMEQC HVDAIVDTLD DFMSCFPWAE KKQDVKEQMF NELLTYNAPH LMQDLDTYLG
GREWLIGNSV TWADFYWEIC STTLLVFKPD LLDNHPRLVT LRKKVQAIPA VANWIKRRPQ TKL

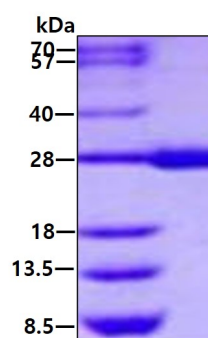
General References

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

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

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.