



# Recombinant Protein Technical Manual

## Recombinant Human HPGDS/GSTS Protein

RPES0453

### Product Data:

**Product SKU:** RPES0453

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** O60760

### Protein Information:

**Molecular Mass:** 23.6 kDa

**AP Molecular Mass:** 26 kDa

**Tag:**

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping:** This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

**Formulation:** Supplied as a 0.2 µm filtered solution of 20mM Tris, 200mM NaCl, pH 7.0.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Hematopoietic Prostaglandin D Synthase; H-PGDS; GST Class-Sigma; Glutathione S-Transferase; Glutathione-Dependent PGD Synthase; Glutathione-Requiring Prostaglandin D Synthase; Prostaglandin-H2 D-Isomerase; HPGDS; GSTS; PGDS; PTGDS2

## Immunogen Information:

**Sequence:** Met 1-Leu199

## Background:

Hematopoietic Prostaglandin D Synthase (HPGDS) belongs to the GST superfamily and Sigma family. HPGDS contains one GST C-terminal domain and one GST N-terminal domain. HPGDS is highly expressed in adipose tissue, macrophages, and placenta, and it exists in the form of homodimer in living body. HPGDS is a cytosolic enzyme that isomerizes PGH<sub>2</sub>. HPGDS is a bifunctional enzyme that catalyzes both the conversion of PGH<sub>2</sub> to PGD<sub>2</sub> and also shows low glutathione-peroxidase activity towards cumenehydroperoxide.