



Recombinant Human Prostaglandin-H2 D-isomerase (PTGDS)

Product Code	CSB-EP018969HU-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P41222
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	APEAQVSV QPNFQQDKFL GRWFSAGLAS NSSWLREKKA ALSMCKSVVA PATDGGNLNT STFLRKNQCE TRTMLLPAG SLGSYSYRSP HWGSTYSVSV VETDYDQYAL LYSQGSKGGP EDFRMTLYS RTQTPRAELK EKFTAFCCKAQ GFTEDTIVFL PQTDKCMTEQ
Source	E.coli
Target Names	PTGDS
Protein Names	Recommended name: Prostaglandin-H2 D-isomerase EC= 5.3.99.2 Alternative name(s): Beta-trace protein Cerebrin-28 Glutathione-independent PGD synthase Lipocalin-type prostaglandin-D synthase Prostaglandin-D2 synthase Short
Expression Region	23-190
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	This protein is a glutathione-independent prostaglandin D synthase that catalyzes the conversion of prostaglandin H2 (PGH2) to prostaglandin D2 (PGD2). PGD2 functions as a neuromodulator as well as a trophic factor in the central nervous system. PGD2 is also involved in smooth muscle contraction/relaxation and is a potent inhibitor of platelet aggregation. This gene is preferentially expressed in brain. Studies with transgenic mice overexpressing this gene suggest that this gene may be also involved in the regulation of non-rapid eye movement sleep.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life



of lyophilized form is 12 months at -20°C/-80°C.