

Recombinant Human Prostaglandin-H2 D-isomerase(PTGDS)

Catalog No: #AP70677

Package Size: #AP70677-1 20ug #AP70677-2 100ug #AP70677-3 1mg



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Description

Product Name	Recombinant Human Prostaglandin-H2 D-isomerase(PTGDS)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:23-190aaSequence Info:Full Length
Other Names	Beta-trace protein;Cerebrin-28Glutathione-independent PGD synthaseLipocalin-type prostaglandin-D synthaseProstaglandin-D2 synthase ;PGD2 synthase ;PGDS ;PGDS2
Accession No.	P41222
Calculated MW	34.7 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	APEAQVSVQPNFQQDKFLGRWFSAGLASNSSWLREKKAALSMCKSVVAPATDGGLNLTSTFLRKNQCETRT MLLQPAGSLGSSYSRSPHWGSTYSVSVVETDQYALLYSQGSKGPGEDFRMATLYSRTQTPRAELKEKFT AFCKAQGFTEDTIVFLPQTDKCMTQ
Formulation	Tris-based buffer50% glycerol
Storage	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.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Catalyzes the conversion of PGH2 to PGD2, a prostaglandin involved in smooth muscle contraction,relaxation and a potent inhibitor of platelet aggregation. Involved in a variety of CNS functions, such as sedation, NR sleep and PGE2-induced allodynia, and may have an anti-apoptotic role in oligodendrocytes. Binds small non-substrate lipophilic molecules, including biliverdin, bilirubin, retinal, retinoic acid and thyroid hormone, and may act as a scavenger for harmful hydrophobic molecules and as a secretory retinoid and thyroid hormone transporter. Possibly involved in development and maintenance of the blood-brain, blood-retina, blood-aqueous humor and blood-testis barrier. It is likely to play important roles in both maturation and maintenance of the central nervous syst and male reproductive syst.

References

Human brain prostaglandin D synthase has been evolutionarily differentiated from lipophilic-ligand carrier proteins.Nagata A., Suzuki Y., Igarashi M., Eguchi N., Toh H., Urade Y., Hayaishi O.Proc. Natl. Acad. Sci. U.S.A. 88:4020-4024(1991)Research Topic:Metabolism

Note: This product is for in vitro research use only and is not intended for use in humans or animals.