

## 32-9137: Recombinant Human Prostaglandin D2 Synthase Protein/ PTGDS (C-His)

**Alternative Name** : Prostaglandin-H2 D-Isomerase; Beta-Trace Protein; Cerebrin-28; Glutathione-Independent PGD Synthase; Lipocalin-Type Prostaglandin-D Synthase; Prostaglandin-D2 Synthase; PGD2 Synthase; PGDS; PGDS2; PTGDS; PDS

### Description

Source : Human 293 Cells;

Prostaglandin-H2 D-Isomerase (PTGDS) is an enzyme that belongs to the lipocalin family of calycin superfamily. PTGDS is preferentially expressed in the brain. It catalyzes the conversion of Prostaglandin H2 (PGH2) to Prostaglandin D2 (PGD2), a prostaglandin involved in smooth muscle contraction/relaxation and a potent inhibitor of platelet aggregation. PTGDS takes part in various CNS functions, such as sedation, REM sleep and PGE2-induced allodynia, and may have an anti-apoptotic role in oligodendrocytes. PTGDS is used clinically as a diagnostic marker for Cerebrospinal fluid rhinorrhea, important in the assessment of head trauma severity. It has been predicted that the urinary and serum levels of PTGDS may be also a marker of renal damage in diabetes mellitus and hypertension.

### Product Info

**Amount** : 500 µg / 50 µg

**Content** : Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4

**Amino Acid** : Recombinant Human Prostaglandin-D2 Synthase is produced by Human 293 Cells and the target gene encoding Ala23-Gln190 is expressed with a 6His tag at the C-terminus.