

PTGES2 Blocking Peptide (Center)
Synthetic peptide
Catalog # BP21806c**Specification**

PTGES2 Blocking Peptide (Center) - Product InformationPrimary Accession [Q9H7Z7](#)**PTGES2 Blocking Peptide (Center) - Additional Information****Gene ID** 80142**Other Names**

Prostaglandin E synthase 2, Membrane-associated prostaglandin E synthase-2, mPGE synthase-2, Microsomal prostaglandin E synthase 2, mPGES-2, Prostaglandin-H(2) E-isomerase, Prostaglandin E synthase 2 truncated form, PTGES2, C9orf15, PGES2

Target/Specificity

The synthetic peptide sequence is selected from aa 133-146 of HUMAN PTGES2

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PTGES2 Blocking Peptide (Center) - Protein Information**Name** PTGES2**Synonyms** C9orf15, PGES2**Function**

Isomerase that catalyzes the conversion of PGH2 into the more stable prostaglandin E2 (PGE2) (in vitro) (PubMed: [12804604](http://www.uniprot.org/citations/12804604), PubMed: [17585783](http://www.uniprot.org/citations/17585783), PubMed: [18198127](http://www.uniprot.org/citations/18198127)). The biological function and the GSH- dependent property of PTGES2 is still under debate (PubMed: [17585783](http://www.uniprot.org/citations/17585783), PubMed: [18198127](http://www.uniprot.org/citations/18198127)). In vivo, PTGES2 could form a complex with GSH and heme and would not participate in PGE2 synthesis but would catalyze the degradation of prostaglandin E2 H2 (PGH2) to 12(S)-hydroxy- 5(Z),8(E),10(E)-heptadecatrienoic acid (HHT) and malondialdehyde (MDA) (By similarity) (PubMed: [17585783](http://www.uniprot.org/citations/17585783))

target="_blank">17585783).

Cellular Location

Golgi apparatus membrane; Single-pass membrane protein

Tissue Location

Widely expressed. Expressed in the heart, including apex, inter-ventricular septum, both atria and ventricles, but not in the aorta. Also expressed in fetal heart. Detected in various regions of the brain: cerebellum; occipital, frontal and parietal lobes. Also expressed in the lymph nodes, skeletal muscle, kidney and trachea, but not in the thymus or lung. Overexpressed in colorectal cancer

PTGES2 Blocking Peptide (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

PTGES2 Blocking Peptide (Center) - Images**PTGES2 Blocking Peptide (Center) - Background**

Isomerase that catalyzes the conversion of PGH2 into the more stable prostaglandin E2 (PGE2).

PTGES2 Blocking Peptide (Center) - References

Ota T., et al. Nat. Genet. 36:40-45(2004).
Totoki Y., et al. Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.
Humphray S.J., et al. Nature 429:369-374(2004).
Tanikawa N., et al. Biochem. Biophys. Res. Commun. 291:884-889(2002).
Watanabe K., et al. Biochem. Biophys. Res. Commun. 306:577-581(2003).