

PTGES2 Blocking Peptide (Center)

Synthetic peptide

Catalog # BP21806c

Specification**PTGES2 Blocking Peptide (Center) - Product Information**Primary 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**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).

Function

Isomerase that catalyzes the conversion of PGH2 into the more stable prostaglandin E2 (PGE2) (in vitro) (PubMed:12804604, PubMed:18198127, PubMed:17585783). The biological function and the GSH- dependent property of PTGES2 is still under debate (PubMed:18198127, PubMed:17585783). 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) (PubMed:17585783) (By similarity).

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](#)