

CYP8A1 Antibody (N-term) Blocking Peptide

Synthetic peptide Catalog # BP7997a

Specification

CYP8A1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession

Q16647

CYP8A1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 5740

Other Names

Prostacyclin synthase, Prostaglandin I2 synthase, PTGIS, CYP8, CYP8A1

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP7997a was selected from the N-term region of human CYP8A1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

CYP8A1 Antibody (N-term) Blocking Peptide - Protein Information

Name PTGIS

Synonyms CYP8, CYP8A1

Function

Catalyzes the biosynthesis and metabolism of eicosanoids. Catalyzes the isomerization of prostaglandin H2 to prostacyclin (= prostaglandin I2), a potent mediator of vasodilation and inhibitor of platelet aggregation (PubMed:18032380, PubMed:25623425, PubMed:12372404, PubMed:15115769).



Cellular Location

Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q29626}; Single-pass membrane protein

Tissue Location

Widely expressed; particularly abundant in ovary, heart, skeletal muscle, lung and prostate

CYP8A1 Antibody (N-term) Blocking Peptide - Protocols

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

• Blocking Peptides

CYP8A1 Antibody (N-term) Blocking Peptide - Images

CYP8A1 Antibody (N-term) Blocking Peptide - Background

CYP8A1 is a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. However, this protein is considered a member of the cytochrome P450 superfamily on the basis of sequence similarity rather than functional similarity. This endoplasmic reticulum membrane protein catalyzes the conversion of prostglandin H2 to prostacyclin (prostaglandin I2), a potent vasodilator and inhibitor of platelet aggregation. An imbalance of prostacyclin and its physiological antagonist thromboxane A2 contribute to the development of myocardial infarction, stroke, and atherosclerosis.

CYP8A1 Antibody (N-term) Blocking Peptide - References

Nelson, D.R., Pharmacogenetics 14 (1), 1-18 (2004)