

**CYP4F22 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8727a****Specification**

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**CYP4F22 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q6NT55](#)**CYP4F22 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 126410**Other Names**

Cytochrome P450 4F22, 11414-, CYP4F22

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8727a](/products/AP8727a) was selected from the N-term region of human CYP4F22. 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.

**CYP4F22 Antibody (N-term) Blocking Peptide - Protein Information****Name** CYP4F22 {ECO:0000303|PubMed:26056268, ECO:0000312|HGNC:HGNC:26820}**Function**

A cytochrome P450 monooxygenase involved in epidermal ceramide biosynthesis. Hydroxylates the terminal carbon (omega- hydroxylation) of ultra-long-chain fatty acyls (C28-C36) prior to ceramide synthesis (PubMed:[26056268](http://www.uniprot.org/citations/26056268)). Contributes to the synthesis of three classes of omega-hydroxy-ultra-long chain fatty acylceramides having sphingosine, 6-hydroxysphingosine and phytosphingosine bases, all major lipid components that underlie the permeability barrier of the stratum corneum (PubMed:[26056268](http://www.uniprot.org/citations/26056268)). Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (CPR; NADPH-ferrihemoprotein reductase) (PubMed:[26056268](http://www.uniprot.org/citations/26056268)).

**Cellular Location**

Endoplasmic reticulum membrane; Single-pass type I membrane protein. Microsome membrane; Single-pass type I membrane protein

**CYP4F22 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**CYP4F22 Antibody (N-term) Blocking Peptide - Images****CYP4F22 Antibody (N-term) Blocking Peptide - Background**

CYP4F22 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.

**CYP4F22 Antibody (N-term) Blocking Peptide - References**

Lefevre,C., et.al., Hum. Mol. Genet. 15 (5), 767-776 (2006)