

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

CYP4F22 Antibody (N-term) Blocking Peptide - Product InformationPrimary 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)