

**UGT2B4 Blocking Peptide(N-term)**

Synthetic peptide

Catalog # BP19747a

**Specification**

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**UGT2B4 Blocking Peptide(N-term) - Product Information**

Primary Accession

[P06133](#)

Other Accession

[NP\\_066962.2](#)**UGT2B4 Blocking Peptide(N-term) - Additional Information**

Gene ID 7363

**Other Names**

UDP-glucuronosyltransferase 2B4, UDPGT 2B4, HLUG25, Hyodeoxycholic acid-specific UDPGT, UDPGTh-1, UGT2B4, UGT2B11

**Target/Specificity**

The synthetic peptide sequence is selected from aa 83-96 of HUMAN UGT2B4

**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.

**UGT2B4 Blocking Peptide(N-term) - Protein Information**Name UGT2B4 ([HGNC:12553](#))

Synonyms UGT2B11

**Function**

UDP-glucuronosyltransferase (UGT) that catalyzes phase II biotransformation reactions in which lipophilic substrates are conjugated with glucuronic acid to increase the metabolite's water solubility, thereby facilitating excretion into either the urine or bile (PubMed:[18719240](http://www.uniprot.org/citations/18719240)), PubMed:[23288867](http://www.uniprot.org/citations/23288867)). Essential for the elimination and detoxification of drugs, xenobiotics and endogenous compounds (PubMed:[18719240](http://www.uniprot.org/citations/18719240)), PubMed:[23288867](http://www.uniprot.org/citations/23288867)). Catalyzes the glucuronidation of the endogenous estrogen hormones such as estradiol and estriol (PubMed:[18719240](http://www.uniprot.org/citations/18719240)), PubMed:[23288867](http://www.uniprot.org/citations/23288867)).

**Cellular Location**

Endoplasmic reticulum membrane; Single-pass membrane protein

**UGT2B4 Blocking Peptide(N-term) - Protocols**

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

- [Blocking Peptides](#)

**UGT2B4 Blocking Peptide(N-term) - Images****UGT2B4 Blocking Peptide(N-term) - Background**

UDPGTs are of major importance in the conjugation and subsequent elimination of potentially toxic xenobiotics and endogenous compounds. This isozyme is active on polyhydroxylated estrogens (such as estriol, 4-hydroxyestrone and 2-hydroxyestriol) and xenobiotics (such as 4-methylumbelliferone, 1-naphthol, 4-nitrophenol, 2-aminophenol, 4-hydroxybiphenyl and menthol). It is capable of 6 alpha-hydroxyglucuronidation of hyodeoxycholic acid.

**UGT2B4 Blocking Peptide(N-term) - References**

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)  
Levesque, E., et al. Pharmacogenet. Genomics 20(3):195-210(2010)  
Yong, M., et al. Cancer Epidemiol. Biomarkers Prev. 19(2):537-546(2010)  
Li, J., et al. Breast Cancer Res. 12 (2), R19 (2010) :  
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)