

UGT2B4 Blocking Peptide (Center)
Synthetic peptide
Catalog # BP21593c**Specification**

UGT2B4 Blocking Peptide (Center) - Product InformationPrimary Accession [P06133](#)**UGT2B4 Blocking Peptide (Center) - 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 338-350 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 (Center) - 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, PubMed:23288867). Essential for the elimination and detoxification of drugs, xenobiotics and endogenous compounds (PubMed:18719240, PubMed:23288867). Catalyzes the glucuronidation of the endogenous estrogen hormones such as estradiol and estriol (PubMed:18719240, PubMed:23288867).

Cellular Location

Endoplasmic reticulum membrane; Single-pass membrane protein

UGT2B4 Blocking Peptide (Center) - Protocols

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

- [Blocking Peptides](#)

UGT2B4 Blocking Peptide (Center) - Images**UGT2B4 Blocking Peptide (Center) - 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 (Center) - References

Jackson M.R.,et al.Biochem. J. 242:581-588(1987).
Jin C.-J.,et al.Biochem. Biophys. Res. Commun. 194:496-503(1993).
Levesque E.,et al.Pharmacogenetics 9:207-216(1999).
McKenzie P.I.,et al.Submitted (JUL-1998) to the EMBL/GenBank/DDBJ databases.
Riedy M.,et al.Submitted (MAR-1999) to the EMBL/GenBank/DDBJ databases.