

SULT1C2-D286 Blocking Peptide

Synthetic peptide

Catalog # BP2602c

Specification

SULT1C2-D286 Blocking Peptide - Product InformationPrimary Accession [O75897](#)**SULT1C2-D286 Blocking Peptide - Additional Information**

Gene ID 27233

Other Names

Sulfotransferase 1C4, ST1C4, 282-, Sulfotransferase 1C2, SULT1C#2, SULT1C4, SULT1C2

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.

SULT1C2-D286 Blocking Peptide - Protein InformationName SULT1C4 ([HGNC:11457](#))**Function**

Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the sulfate conjugation of phenolic compounds. Can also sulfonate estrogenic compounds, however, the dietary flavonoids (phytoestrogen) and environmental estrogens, like bisphenol A are better substrates than 17beta-estradiol (E2) (PubMed:17425406, PubMed:28222028, PubMed:9852044, PubMed:26948952). Mediates the sulfation of doxorubicin and its analog epirubicin, two antitumor anthracyclines (PubMed:26948952).

Cellular Location

Cytoplasm, cytosol.

Tissue Location

Expressed at high levels in fetal lung and kidney and at low levels in fetal heart, adult kidney, ovary and spinal chord

SULT1C2-D286 Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

SULT1C2-D286 Blocking Peptide - Images

SULT1C2-D286 Blocking Peptide - Background

Sulfotransferase enzymes catalyze the sulfate conjugation of many hormones, neurotransmitters, drugs, and xenobiotic compounds. These cytosolic enzymes are different in their tissue distributions and substrate specificities. The gene structure (number and length of exons) is similar among family members. This gene encodes a protein that belongs to the SULT1 subfamily, responsible for transferring a sulfo moiety from PAPS to phenol-containing compounds.

SULT1C2-D286 Blocking Peptide - References

Freimuth, R.R., et al., Genomics 65(2):157-165 (2000).
Sakakibara, Y., et al., J. Biol. Chem. 273(51):33929-33935 (1998).
Weinshilboum, R.M., et al., FASEB J. 11(1):3-14 (1997).
Glatt, H., et al., Toxicol. Lett. 112-113, 341-348 (2000) (): ().
Glatt, H., Chem. Biol. Interact. 129 (1-2), 141-170 (2000) (): ().