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UGT8 antibody (Center) Blocking peptide

Synthetic peptide
Catalog # BP11630c

Specification

UGT8 antibody (Center) Blocking peptide - Product Information

Primary Accession Q16880

UGT8 antibody (Center) Blocking peptide - Additional Information

Gene ID 7368

Other Names
2-hydroxyacylsphingosine 1-beta-galactosyltransferase, Ceramide UDP-galactosyltransferase, Cerebroside synthase, UDP-galactose-ceramide galactosyltransferase, UGT8, CGT, UGT4

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.

UGT8 antibody (Center) Blocking peptide - Protein Information

Name UGT8 (HGNC:12555)

Synonyms CGT, UGT4

Function
Catalyzes the transfer of galactose to ceramide, a key enzymatic step in the biosynthesis of galactocerebrosides, which are abundant sphingolipids of the myelin membrane of the central nervous system and peripheral nervous system (PubMed:9125199). Galactosylates both hydroxy- and non-hydroxy fatty acid-containing ceramides and diglycerides (By similarity).

Cellular Location
Membrane; Single-pass membrane protein. Endoplasmic reticulum {ECO:0000250|UniProtKB:Q09426}

UGT8 antibody (Center) Blocking peptide - Protocols

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

- Blocking Peptides

UGT8 antibody (Center) Blocking peptide - Images

UGT8 antibody (Center) Blocking peptide - Background

Galactocerebrosides are abundant sphingolipids of themyelin membrane of the central nervous system and peripheralnervous system and are also present in small amounts in kidney. Thekey enzymatic step in the biosynthesis of galactocerebrosidesconsists of the transfer of galactose to ceramide catalyzed byUDP-galactose ceramide galactosyltransferase (CGT, EC 2.4.1.45).The enzyme encoded by the CGT gene is the first involved in complexlipid biosynthesis in the myelinating oligodendrocyte.[supplied byOMIM].

UGT8 antibody (Center) Blocking peptide - References

Dziecedil Giel, P., et al. Br. J. Cancer 103(4):524-531(2010)Kalsi, G., et al. Hum. Mol. Genet. 19(12):2497-2506(2010)Ross, C.J., et al. Nat. Genet. 41(12):1345-1349(2009)Ruckhaberle, E., et al. J. Cancer Res. Clin. Oncol. 135(8):1005-1013(2009)Saito, A., et al. J. Hum. Genet. 54(6):317-323(2009)