10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GALC Blocking Peptide (N-Term)
Synthetic peptide
Catalog # BP22090a

Specification

GALC Blocking Peptide (N-Term) - Product Information

Primary Accession	P54803
Other Accession	P54804, O02791, P54818

GALC Blocking Peptide (N-Term) - Additional Information

Gene ID 2581

Other Names
Galactocerebrosidase, GALCERase, 3.2.1.46, Galactocerebroside beta-galactosidase, Galactosylceramidase, Galactosylceramide beta-galactosidase, GALC

Target/Specificity
The synthetic peptide sequence is selected from aa 46-56 of HUMAN GALC

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.

GALC Blocking Peptide (N-Term) - Protein Information

Name GALC (HGNC:4115)

Function
Hydrolyzes the galactose ester bonds of glycolipids such as galactosylceramide and galactosylsphingosine (PubMed:8281145, PubMed:8399327). Enzyme with very low activity responsible for the lysosomal catabolism of galactosylceramide, a major lipid in myelin, kidney and epithelial cells of small intestine and colon (PubMed:8281145, PubMed:8399327).

Cellular Location
Lysosome.

Tissue Location

Detected in urine. Detected in testis, brain and placenta (at protein level). Detected in kidney and liver

GALC Blocking Peptide (N-Term) - Protocols

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

- Blocking Peptides

GALC Blocking Peptide (N-Term) - Images

GALC Blocking Peptide (N-Term) - Background

Hydrolyzes the galactose ester bonds of galactosylceramide, galactosylsphingosine, lactosylceramide, and monogalactosyldiglyceride. Enzyme with very low activity responsible for the lysosomal catabolism of galactosylceramide, a major lipid in myelin, kidney and epithelial cells of small intestine and colon.

GALC Blocking Peptide (N-Term) - References

Luzi P.,et al.Genomics 26:407-409(1995).
Sakai N.,et al.Biochim. Biophys. Acta 1395:62-67(1998).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Heilig R.,et al.Nature 421:601-607(2003).
Chen Y.Q.,et al.Hum. Mol. Genet. 2:1841-1845(1993).