

Recombinant Mouse Galc, Myc-His-tagged

Cat. No. Galc-200M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Galactocerebrosidase/ GALC Protein,C-Myc & His Tag (Mouse Galactocerebrosidase /GALC) Tyr 43 - Arg 684 (Accession # P54818) was produced in human 293 cells (HEK293).
Species	Mouse
Source	HEK293
ProteinLength	43-684 a.a.
Description	Galactocerebrosidase (GALC) is also known as GALCERase, Galactocerebroside beta-galactosidase, Galactosylceramidase and Galactosylceramide beta-galactosidase, which belongs to the glycosyl hydrolase 59 family. Galactocerebrosidase / GALC hydrolyzes the galactose ester bonds of galactosylceramide, galactosylsphingosine, lactosylceramide, and monogalactosyldiglyceride. GALC 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. Defects in Galc are the cause of the "twitcher" phenotype.
Form	Lyophilized from 0.22 µm filtered solution in 50 mM MES, pH 6.5 with 100 mM NaCl. Normally Mannitol or Trehalose are added as protectants before lyophilization.
Endotoxin	Less than 1.0 EU per µg of the Mouse Galactocerebrosidase /GALC by the LAL method.

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Purity	>90% as determined by SDS-PAGE.
Storage	Avoid repeated freeze-thaw cycles.No activity loss was observed after storage at:In lyophilized state for 1 year (4oC); After reconstitution under sterile conditions for 3 months (-70oC).
Reconstitution	See Certificate of Analysis for reconstitution instructions and specific concentrations.
GENE INFORMATION	
Gene Name	Galc galactosylceramidase [Mus musculus]
Official Symbol	Galc
Synonyms	GALC; galactosylceramidase; galactocerebrosidase; GALCERase; galactocerebroside beta-galactosidase; galactosylceramide beta-galactosidase; twi; Gacy; AW212969; AW413532; twitcher; 2310068B06Rik; A930008M05Rik;
Gene ID	14420
mRNA Refseq	NM_008079
Protein Refseq	NP_032105
Pathway	Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Metabolic pathways, organism-specific biosystem; Sphingolipid metabolism, organism-specific biosystem; Sphingolipid metabolism, conserved biosystem;
Function	catalytic activity; cation binding; galactosylceramidase activity; hydrolase activity; hydrolase activity, acting on glycosyl bonds;

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