

Recombinant Mouse Galc, Myc-His-tagged

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

SPECIFICATION

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| 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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