Recombinant Full Length Human GALC Protein, GST-tagged

Cat. No. GALC-5221HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GALC full-length ORF (AAH36518, 27 a.a. - 669 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	27-669 amino acids
Description	This gene encodes a lysosomal protein which hydrolyzes the galactose ester bonds of galactosylceramide, galactosylsphingosine, lactosylceramide, and monogalactosyldiglyceride. Mutations in this gene have been associated with Krabbe disease, also known as globoid cell leukodystrophy. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq
Molecular Mass	96.47 kDa
AA Sequence	YVLDDSDGLGREFDGIGAVSGGGATSRLLVNYPEPYRSQILDYLFKPNFGASLHILKV EIGGDGQTTDGTEPSHMHYALDGNYFRGYEWWLMKEAKKRNPNITLIGLPWSFPG WLGKGFDWPYVNLQLTAYYVVTWIVGAKRYHDLDIDYIGIWNERSYNANYIKILRKML NYQGLQRVKIIASDNLWESISASMLLDAELFKVVDVIGAHYPGTHSAKDAKLTGKKL WSSEDFSTLNSDMGAGCWGRILNQNYINGYMTSTIAWNLVASYYEQLPYGRCGLM TAQEPWSGHYVVESPVWVSAHTTQFTQPGWYYLKTVGHLEKGGSYVALTDGLGNL TIIIETMSHKHSKCIRPFLPYFNVSQQFATFVLKGSFSEIPELQVWYTKLGKTSERFLF KQLDSLWLLDSDGSFTLSLHEDELFTLTTLTTGRKGSYPLPPKSQPFPSTYKDDFNV

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	DYPFFSEAPNFADQTGVFEYFTNIEDPGEHHFTLRQVLNQRPITWAADASNTISIIGD YNWTNLTTKCDVYIETPDTGGVFIAGRVNKGGILIRSARGIFFWIFANGSYRVTGDLA GWIIYALGRVEVTAKKWYTLTLTIKGHFASGMLNDKSLWTDIPVNFPKNGWAAIGTH SFEFAQFDNFRVEATR
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	GALC galactosylceramidase [Homo sapiens]
Official Symbol	GALC
Synonyms	GALC; galactosylceramidase; galactosylceramidase (Krabbe disease); galactocerebrosidase; Krabbe disease; GALCERase; galactosylceraminidase; galactocerebroside beta-galactosidase; galactosylceramide beta-galactosidase;
Gene ID	2581
mRNA Refseq	NM_000153
Protein Refseq	NP_000144

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MIM	606890
UniProt ID	P54803

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