

Product datasheet for PH301304

OriGene Technologies, Inc.

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Galactosidase alpha (GLA) (NM_000169) Human Mass Spec Standard

Product data:

Product Type: Mass Spec Standards

Description: GLA MS Standard C13 and N15-labeled recombinant protein (NP_000160)

Species:HumanExpression Host:HEK293

Expression cDNA Clone

RC201304

or AA Sequence: Predicted MW:

48.8 kDa

Protein Sequence: >RC201304 protein sequence

Red=Cloning site Green=Tags(s)

MQLRNPELHLGCALALRFLALVSWDIPGARALDNGLARTPTMGWLHWERFMCNLDCQEEPDSCISEKLFM EMAELMVSEGWKDAGYEYLCIDDCWMAPQRDSEGRLQADPQRFPHGIRQLANYVHSKGLKLGIYADVGNK TCAGFPGSFGYYDIDAQTFADWGVDLLKFDGCYCDSLENLADGYKHMSLALNRTGRSIVYSCEWPLYMWP FQKPNYTEIRQYCNHWRNFADIDDSWKSIKSILDWTSFNQERIVDVAGPGGWNDPDMLVIGNFGLSWNQQ VTQMALWAIMAAPLFMSNDLRHISPQAKALLQDKDVIAINQDPLGKQGYQLRQGDNFEVWERPLSGLAWA VAMINRQEIGGPRSYTIAVASLGKGVACNPACFITQLLPVKRKLGFYEWTSRLRSHINPTGTVLLQLENT

MQMSLKDLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Concentration: >0.05 µg/µL as determined by microplate BCA method

Labeling Method: Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3

Storage: Store at -80°C. Avoid repeated freeze-thaw cycles.

Stability: Stable for 3 months from receipt of products under proper storage and handling conditions.

RefSeq: NP 000160

RefSeq Size: 1418
RefSeq ORF: 1288
Synonyms: GALA





Locus ID: 2717

UniProt ID: P06280, Q53Y83

Cytogenetics: Xq22.1

Summary: This gene encodes a homodimeric glycoprotein that hydrolyses the terminal alpha-galactosyl

moieties from glycolipids and glycoproteins. This enzyme predominantly hydrolyzes ceramide trihexoside, and it can catalyze the hydrolysis of melibiose into galactose and glucose. A variety of mutations in this gene affect the synthesis, processing, and stability of this enzyme, which causes Fabry disease, a rare lysosomal storage disorder that results from a failure to

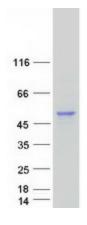
catabolize alpha-D-galactosyl glycolipid moieties. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Galactose metabolism, Glycerolipid metabolism, Glycosphingolipid biosynthesis - globo series,

Lysosome, Sphingolipid metabolism

Product images:



Coomassie blue staining of purified GLA protein (Cat# [TP301304]). The protein was produced from HEK293T cells transfected with GLA cDNA clone (Cat# [RC201304]) using MegaTran 2.0 (Cat# [TT210002]).