

Recombinant Feline Beta-Galactosidase (GLB1)

Cat. No.: AP2C153

Product Type: Animal Proteins

Size: 20 µg; 100 µg; 1 mg

Product Overview

BioVenic's Recombinant Feline Beta-Galactosidase (GLB1) is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 75.2 kDa. The purity is >85% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Feline
Expression System	<i>E.coli</i>
Purity	>85% (SDS-PAGE)
Predicted Molecular Weight	75.2 kDa
Physical State	Lyophilized
Formulation	Tris/PBS-based buffer, 6% Trehalose.

Target Information

In felines, beta-galactosidase (GLB1) is a lysosomal enzyme that degrades glycosphingolipids like GM1 ganglioside and glycosaminoglycans such as keratan sulfate. It is crucial for maintaining neuronal function and connective tissue integrity. Mutations in the GLB1 gene cause GM1 gangliosidosis, a fatal neurodegenerative disease characterized by GM1 accumulation in neurons. GLB1 also contributes to elastic fiber formation by encoding elastin-binding protein. Studies in feline models have shown that delivering the GLB1 gene via AAV vectors can potentially treat GM1 gangliosidosis.

Protein	Feline Beta-Galactosidase (GLB1)
Protein Synonym	GLB1; BGAL; Beta-galactosidase; Acid beta-galactosidase; Lactase
Gene ID	493927
UniProt ID	Q19015

Shipping and Storage

This product is shipped with ice packs. Lyophilized protein can be stored at -20°C for 1 year. After reconstitution, the protein solution can be stored at 2-8°C for 2-7 days.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Aliquot the reconstituted solution to minimize freeze-thaw cycles.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.