

# Recombinant Human GBA3/CBGL1 Protein (His Tag)

Catalog Number:PKSH031073



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

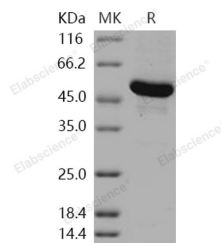
## Description

|                                    |   |
|------------------------------------|---|
| <b>Synonyms</b>                    | CBG;CBGL1;GBA3;GLUC;KLrP;MGC104276;MGC126878  |
| <b>Species</b>                     | Human   |
| <b>Expression Host</b>             | Baculovirus-Insect Cells  |
| <b>Sequence</b>                    | Met 1-Leu 469   |
| <b>Accession</b>                   | NP_066024.1   |
| <b>Calculated Molecular Weight</b> | 55.0 kDa  |
| <b>Observed molecular weight</b>   | 50 kDa  |
| <b>Tag</b>                         | C-His   |
| <b>Bioactivity</b>                 | Measured by its ability to hydrolyze 4-methylumbelliferyl- $\beta$ -D glucopyranoside. The specific activity is > 1, 500 pmoles/min/ $\mu$ g. |

## Properties

|                       |  |
|-----------------------|--|
| <b>Purity</b>         | > 95 % as determined by reducing SDS-PAGE.   |
| <b>Endotoxin</b>      | < 1.0 EU per $\mu$ g of the protein as determined by the LAL method.   |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.                      |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.  |
| <b>Formulation</b>    | Lyophilized from sterile 20mM Tris, 500mM NaCl, 10% glycerol, pH 7.4<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.   |

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Cytosolic beta-glucosidase, also known as Cytosolic beta-glucosidase-like protein 1, GBA3, CBG and CBGL1 is a cytoplasm protein which belongs to the glycosyl hydrolase 1 family and Klotho subfamily. GBA3 / CBGL1 is a glycosidase probably involved in the intestinal absorption and metabolism of dietary flavonoid glycosides. GBA3 / CBGL1 is present in small intestine (at protein level). GBA3 / CBGL1 is expressed in liver, small intestine, colon, spleen and kidney. GBA3 / CBGL1 is down-regulated in renal cell carcinomas and hepatocellular carcinomas. GBA3 / CBGL1 is able to hydrolyze a broad variety of glycosides including phytoestrogens, flavonols, flavones, flavanones and cyanogens.

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GBA3 / CBGL1 possesses beta-glycosylceramidase activity and may be involved in a nonlysosomal catabolic pathway of glycosylceramide.

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