



# Recombinant Chinese hamster PLBD2 Protein [His] (DAGC593)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	A DNA sequence encoding the chinese hamster PLBD2 (G3I6T1-1) (Leu38-Asp585) was expressed with a polyhistidine tag at the C-terminus.
<b>Species</b>	Chinese hamster
<b>Purity</b>	> 95 % as determined by SDS-PAGE.
<b>Conjugate</b>	His
<b>Applications</b>	SDS-PAGE
<b>Molecular Weight</b>	The recombinant chinese hamster PLBD2 consists of 559 amino acids and predicts a molecular mass of 63.3 kDa. It migrates as an approximately 65.3, 43.8 and 35.9 KDa band in SDS-PAGE under reducing conditions.
<b>Format</b>	Lyophilized
<b>Size</b>	100 µg, 1 mg
<b>Buffer</b>	Lyophilized from sterile PBS, pH 7.4.
<b>Preservative</b>	None
<b>Storage</b>	Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

## BACKGROUND

<b>Introduction</b>	PLBD2 localizes to the lysosome, as its absence could plausibly lead to a serious yet
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unrecognized lysosomal storage disease. PLBD1 and PLBD2 are semi-orphans in the sense of being probable phospholipases of B class but with uncertain physiological substrates and thus functionalities. PLBD1 and PLBD2 constitute a small gene family (sequence homology class) within vertebrates though one that occurs expanded in some early diverging eukaryotes. PLBD2 presents a special difficulty in that a sequence of post-translational steps are apparently necessary for its activation. Without these, potential substrates can hardly be assayed. These steps include removal of the signal peptide, mannosylation appropriate to the lysosome targeting receptor, and self-catalytic proteolytic activation to expose the substrate binding site as this becomes appropriate.

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**Keywords**

PLBL2; phospholipase B-like 2 protein; PLBL-2; phospholipase B domain containing 2; PLBD2

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