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G6PC2 Antibody Blocking Peptide

Catalog Number:	bs-13386P
Activity:	Not tested
Purification:	HPLC
Storage:	Shipped at 4°C. Stored at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background:	Glucose-6-phosphatase (G6Pase), is a multicomponent enzyme system that hydrolyzes
	glucose-6-phosphate in the final step of gluconeogenesis and gluconeolysis. G6Pase
	localizes to the endoplasmic reticulum, and while liver, kidney, and intestine are the only
	tissues that express the first identified isoform, G6Pase-alpha, a second form, designated
	<code>G6Pase- $floor$, contributes to blood glucose homeostasis in a wider range of tissues. Islet-</code>
	specific G-6-Pase catalytic subunit-related protein (IGRP), a homolog of the catalytic subunit
	of G6Pase, may play a role in the regulation of islet metabolism and in insulin secretion
	induced by metabolites. The exact catalytic acivity of IGRP is not defined. Identification of
	inhibitors of IGRP have potential therapeutic benefits for treatment of type 2 diabetes
	resulting from insulin secretion defects. Structurally, IGRP has been shown to be a
	glycoprotein held in the endoplasmic reticulum by nine transmembrane domains, which are
	then degraded in cells through the proteasome pathway generating MHC class I presented
	peptides.