

Recombinant Human PLA2G1B/PLA2 Protein (His Tag)

Catalog Number:PKSH032899



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

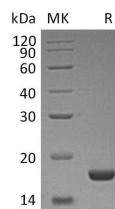
Description

Synonyms	PLA2G1B;Phospholipase A2;Group IB phospholipase A2;PLA2;PLA2A;PPLA2
Species	Human
Expression Host	HEK293 Cells
Sequence	Ala23-Ser148
Accession	P04054
Calculated Molecular Weight	15.2 kDa
Observed molecular weight	17-20 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, 10% Glycerol, pH 8.0.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Phospholipase A2(PLA2G1B) is a secreted protein which belongs to the phospholipase A2 family. It catalyzes the release of fatty acids from glycerol-3-phosphocholines. It catalyzes the calcium-dependent hydrolysis of the 2-acyl groups in 3-sn-phosphoglycerides. This releases glycerophospholipids and arachidonic acid that serve as the precursors of signal molecules. Sequences of pancreatic PLA2G1B enzymes from a variety of mammals have been reported. One striking feature of these enzymes is their close homology to venom phospholipases of snakes. Mice lacking in PLA2G1B are resistant to obesity and diabetes induced by feeding a diabetogenic high-fat/high-carbohydrate diet. Oral supplementation of a diabetogenic diet with the PLA2G1B inhibitor methyl indoxam effectively suppresses diet-induced obesity and diabetes. PLA2G1B inhibition may be a potentially effective oral therapeutic option for treatment of obesity and diabetes.

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