

32-8492: Recombinant Human PLA2G1B/PLA2/PLA2A (C-6His)(Discontinued)

Gene : PLA2G1B

Gene ID : 5319

Uniprot ID : P04054

Description

Source: Human Cells.

MW :15.2kD.

Recombinant Human PLA2G1B is produced by our Mammalian expression system and the target gene encoding Ala23-Ser148 is expressed with a 6His tag at the C-terminus. 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.

Product Info

Amount : 10 µg / 50 µg

Content : Supplied as a 0.2 µm filtered solution of 20mM TrisHCl,150mM NaCl,10% Glycerol,pH8.0.

Storage condition : Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.

Amino Acid : AVWQFRKMIKCVIPGSDPFLEYNNYGCYGLGGSGTPVDELDKCCQTHDNCYDQAKKLDSCKFLLDNPYTHY
SYSCSGSAITCSSKNKECEAFICNCDRNAAICFSKAPYNKAHKNLDTKKYCQSVDDHHHHHH

Application Note

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.