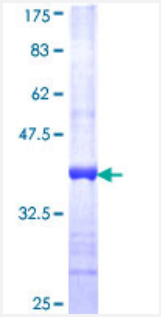
PLA2G3 (Human) Recombinant Protein (Q01)

Catalog # H00050487-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PLA2G3 partial ORF (NP_056530, 21 a.a. - 130 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	SPALRWYRTSCHLTKAVPGNPLGYLSFLAKDAQGLALIHARWDAHRRLQACSWEDEPELTAAYG ALCAHETAWGSFIHTPGPELQRALATLQSQWEACRALEESPAGARK
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.84
Interspecies Antigen Sequence	Mouse (65); Rat (65)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PLA2G3

Entrez GeneID	50487
GeneBank Accession#	NM_015715
Protein Accession#	NP_056530
Gene Name	PLA2G3
Gene Alias	GIII-SPLA2, SPLA2III
Gene Description	phospholipase A2, group III
Omim ID	611651
Gene Ontology	Hyperlink
Gene Summary	PLA2G3 belongs to the family of secreted phospholipase A2 (sPLA2; EC 3.1.1.4) proteins. Thes e Ca(2+)-dependent lipolytic enzymes have a conserved Ca(2+)-binding loop and a his-asp dyad in the catalytic site (Murakami et al., 2003 [PubMed 12522102]).[supplied by OMIM
Other Designations	group III secreted phospholipase A2|phosphatidylcholine 2-acylhydrolase GIII

Pathway

- alpha-Linolenic acid metabolism
- Arachidonic acid metabolism
- Ether lipid metabolism
- Fc epsilon RI signaling pathway

- Glycerophospholipid metabolism
- GnRH signaling pathway
- Linoleic acid metabolism
- Long-term depression
- MAPK signaling pathway
- Metabolic pathways
- Vascular smooth muscle contraction
- VEGF signaling pathway

Disease

- Cerebral Hemorrhage
- Genetic Predisposition to Disease
- HIV Infections
- Hypertension
- Intracranial Hemorrhages
- Stroke
- Subarachnoid Hemorrhage