

## Product datasheet for **TP313014M**

### PLA2G10 (NM\_003561) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human phospholipase A2, group X (PLA2G10), 100 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone  
or AA Sequence:** >RC213014 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MGPLPVCLPIMLLLLLPSLLLLLLPGPGSGEASRILRVHRRGILELAGTVGCVGPRTPIAYMKYGCFCG  
LGGHGQPRDAIDWCCHGHDCCYTRAEAGCSPKTERYSWQCVNQSVLCGPAENKCKQELLCKCDQEIANCL  
AQTEYNLKYLFYPQFLCEPDSPKCD

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 18 kDa

**Concentration:** >0.1 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_003552](#)

**Locus ID:** 8399

**UniProt ID:** [O15496](#)

**RefSeq Size:** 1020



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**Cytogenetics:** 16p13.12

**RefSeq ORF:** 495

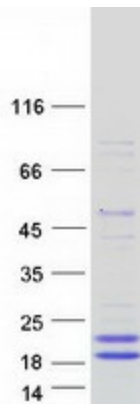
**Synonyms:** GXPLA2; GXSPLA2; SPLA2; sPLA2-X

**Summary:** This gene encodes a member of the phospholipase A2 family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature enzyme. This calcium-dependent enzyme hydrolyzes glycerophospholipids to produce free fatty acids and lysophospholipids. In one example, this enzyme catalyzes the release of arachidonic acid from cell membrane phospholipids, thus playing a role in the production of various inflammatory lipid mediators, such as prostaglandins. The encoded protein may promote the survival of breast cancer cells through its role in lipid metabolism. [provided by RefSeq, Nov 2015]

**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane

**Protein Pathways:** 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

### Product images:



Coomassie blue staining of purified PLA2G10 protein (Cat# [TP313014]). The protein was produced from HEK293T cells transfected with PLA2G10 cDNA clone (Cat# [RC213014]) using MegaTran 2.0 (Cat# [TT210002]).