

Human Pleckstrin / PLEK / p47 Protein (His Tag)

Catalog Number: 14401-H07E



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

P47

Protein Construction:

A DNA sequence encoding the mature form of human PLEK (XP_004029394.1) (Met1-Lys350) was expressed with a polyhistide tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: His

Molecular Mass:

The recombinant human PLEK consists of 365 amino acids and predicts a molecular mass of 41.9 KDa. It migrates as an approximately 45 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 50mM Tris, 10% Glycerol, pH 8.0.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

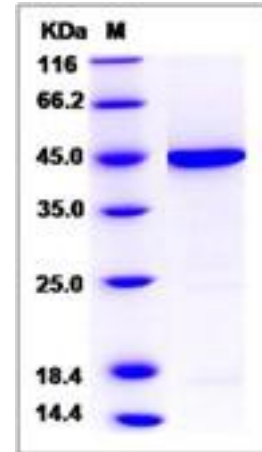
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Pleckstrin is a protein found in platelets. Pleckstrin is the source of the name pleckstrin homology domain. Pleckstrin homology domain (PH domain) is a protein domain of approximately 120 amino acids that occurs in a wide range of proteins involved in intracellular signaling or as constituents of the cytoskeleton. This domain can bind Phosphatidylinositol lipids within biological membranes (such as Phosphatidylinositol (3,4,5)-trisphosphate and phosphatidylinositol (4,5)-bisphosphate), and proteins such as the $\beta\gamma$ -subunits of heterotrimeric G proteins, and protein kinase C. Through these interactions, PH domains play a role in recruiting proteins to different membranes, thus targeting them to appropriate cellular compartments or enabling them to interact with other components of the signal transduction pathways.

References

1. Ingley E, *et al.* (1994) Pleckstrin homology (PH) domains in signal transduction. *J Cell Biochem.* 56(4):436-43.
2. Gibson TJ, *et al.* (1994) PH domain: the first anniversary. *Trends Biochem Sci.* 19(9):349-53.
3. Haslam RJ, *et al.* (1993) Pleckstrin domain homology. *Nature.* 363(6427):309-10.

Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

For US Customer: Fax: 267-657-0217 • Tel: 215-583-7898

Global Customer: Fax :+86-10-5862-8288 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>