

Datasheet for ABIN7548478  
**ILK Protein (AA 1-452) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	ILK
Protein Characteristics:	AA 1-452
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ILK protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant ILK Protein expressed in mammalian cells.
Sequence:	<p>MDDIFTQCRE GNAVAVRLWL DNTENDLNQG DDHGFSPHLW ACREGRSAVV EMLIMRGARI            NVMNRGDDTP LHAAASHGHR DIVQKLLQYK ADINAVNEHG NVPLHYACFW GQDQVAEDLV            ANGALVSICN KYGEMPVDKA KAPLRELLRE RAEKMGQNLN RPYKDTFWK GTTRTRPRNG            TLNKHSGIDF KQLNFLTKLN ENHSGELWKG RWQGNDIVVK VLKVRDWSTR KSRDFNEECP            RLRIFSHPNV LPVLGACQSP PAPHPTLITH WMPYGSLYNV LHEGTNFVVD QSQAVKFALD            MARGMAFLHT LEPLIPRHAL NSRSVMIDED MTARISMADV KFSFQCPGRM YAPAWVAPEA            LQKKPEDTNR RSADMWSFAV LLWELVTREV PFADLSNMEI GMKVALEGLR PTIPPGISPH            VCKLMKICMN EDPKRPKFD MIVPILEKMQ DK <b>Sequence without tag. The proposed</b>  <b>Purification-Tag is based on experiences with the expression system, a different complexity</b>  <b>of the protein could make another tag necessary. In case you have a special request, please</b>  <b>contact us.</b></p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

## Product Details

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isoform, please contact us regarding an individual offer.

### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

### Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

### Grade:

custom-made

## Target Details

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### Target:

ILK

### Alternative Name:

ILK ([ILK Products](#))

### Background:

Integrin-linked protein kinase (EC 2.7.11.1) (59 kDa serine/threonine-protein kinase) (Beta-integrin-linked kinase) (ILK-1) (ILK-2) (p59ILK), FUNCTION: Receptor-proximal protein kinase regulating integrin-mediated signal transduction (PubMed:8538749, PubMed:9736715). May act as a mediator of inside-out integrin signaling (PubMed:10712922). Focal adhesion protein part of the complex ILK-PINCH (PubMed:10712922). This complex is considered to be one of the convergence points of integrin- and growth factor-signaling pathway (PubMed:10712922). Could be implicated in mediating cell architecture, adhesion to integrin substrates and anchorage-dependent growth in epithelial cells (PubMed:10712922). Regulates cell motility by forming a complex with PARVB (PubMed:32528174). Phosphorylates beta-1 and beta-3 integrin subunit on serine and threonine residues, but also AKT1 and GSK3B (PubMed:8538749, PubMed:9736715). {ECO:0000269|PubMed:32528174, ECO:0000269|PubMed:8538749, ECO:0000269|PubMed:9736715, ECO:0000303|PubMed:10712922}.

## Target Details

Molecular Weight:	51.4 kDa
UniProt:	<a href="#">Q13418</a>
Pathways:	<a href="#">Regulation of Muscle Cell Differentiation</a> , <a href="#">Regulation of Cell Size</a> , <a href="#">Maintenance of Protein Location</a> , <a href="#">Skeletal Muscle Fiber Development</a> , <a href="#">Smooth Muscle Cell Migration</a>

## Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months