
Product Data Sheet

Product Name: ILK1 Human
 Cat. No.: GP22533
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Integrin-linked protein kinase; ILK-1; ILK-2; 59 kDa serine/threonine-protein kinase; p59ILK; ILK; ILK1; ILK2; DKFZp686F1765; P59.		
Formulation	ILK1 protein is supplied in 25mM Sodium Acetate (pH 4.8) and 50% glycerol.		

Introduction

ILK1 (Integrin-linked kinase) is a serine/threonine protein kinase, containing 4 ankyrin-like repeats. ILK1 regulates a number of biological properties which include: anchorage-independent cell cycle progression, tumor cell invasion and apoptosis. ILK1 can also be implicated in mediating cell architecture, adhesion to integrin substrates and anchorage-dependent growth in epithelial cells. Furthermore, ILK1 phosphorylates beta-1 and beta-3 integrin subunit on serine and threonine residues, but also AKT1 and GSK3B. ILK1 interacts with the cytoplasmic domains of integrin α 1 and α 3 subunits in addition to several adaptors and signaling proteins, it also acts as a proximal receptor kinase regulating integrin-mediated signal transduction. ILK1 is a focal adhesion protein part of the complex ILK-PINCH. This complex is deemed to be one of the convergence points of integrin- and growth factor-signaling pathway. ILK1 is stimulated rapidly but briefly by both cell fibronectin interactions in a PI3-K-dependent manner, probably through the binding of PtdIns(3,4,5)P3 with a PH-like domain of ILK. ILK1 over-expression has been documented in a wide variety of human malignancies.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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ILK1 Human Recombinant produced in E.Coli is single, a non-glycosylated, Polypeptide chain containing 452 amino acids fragment (1-452) having a molecular mass of 55.92kDa and fused with a 4.5kDa amino-terminal hexahistidine tag. The ILK1 is purified by proprietary chromatographic techniques.

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