

Product datasheet

Recombinant Human ENSA protein (His tag) ab219690

1 Image

Description

Product name	Recombinant Human ENSA protein (His tag)	
Purity	> 90 % SDS-PAGE.	
Endotoxin level	< 1.000 Eu/μg	
Expression system	Escherichia coli	
Accession	O43768	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	SQKQEEENPAEETGEEKQDTQEKEGILPERAEEAKLKAK YPSLGQKPGGS DFLMKRLQKGQKYFDSDYDMAKAKMKNKQLPSAGPDK NLVTGDHIPTD LPQRKSSLVTSKLAGGQVE	
Predicted molecular weight	14 kDa including tags	
Amino acids	2 to 121	
Tags	His tag N-Terminus	
Additional sequence information	(AAH00436).	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab219690** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at 4°C (stable for up to 12 months). Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7.40
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Constituent: 95% PBS

Note: 5-10% trehalose is commonly used for freeze drying, and after reconstitution, the trehalose is mostly about 3-5%.

Reconstitution

Reconstitute with sterile deionized water to a concentration of 200 µg/ml.

General Info

Function

Protein phosphatase inhibitor that specifically inhibits protein phosphatase 2A (PP2A) during mitosis. When phosphorylated at Ser-67 during mitosis, specifically interacts with PPP2R2D (PR55-delta) and inhibits its activity, leading to inactivation of PP2A, an essential condition to keep cyclin-B1-CDK1 activity high during M phase (By similarity). Also acts as a stimulator of insulin secretion by interacting with sulfonylurea receptor (ABCC8), thereby preventing sulfonylurea from binding to its receptor and reducing K(ATP) channel currents.

Tissue specificity

Widely expressed with high levels in skeletal muscle and brain and lower levels in the pancreas.

Sequence similarities

Belongs to the endosulfine family.

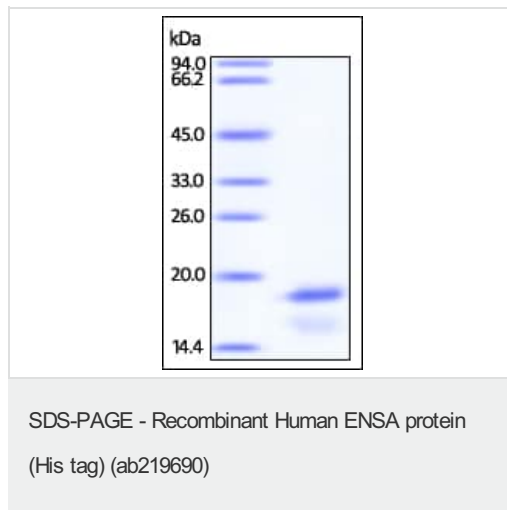
Post-translational modifications

Phosphorylation at Ser-67 by GWL during mitosis is essential for interaction with PPP2R2D (PR55-delta) and subsequent inactivation of PP2A (By similarity). Phosphorylated by PKA.

Cellular localization

Cytoplasm.

Images



SDS-PAGE analysis of DTT-reduced ab219690 stained overnight with Coomassie Blue. DTT-reduced protein migrates as 18 kDa.

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