

Product datasheet

Recombinant human Activin Receptor Type IA (mutated Q207 D) protein ab190988

2 Images

Description

<b>Product name</b>	Recombinant human Activin Receptor Type IA (mutated Q207 D) protein	
<b>Biological activity</b>	The specific activity of ab190988 was determined to be 18 nmol/ min/ mg.	
<b>Purity</b>	> 95 % SDS-PAGE.	
<b>Expression system</b>	Baculovirus infected Sf9 cells	
<b>Accession</b>	<a href="#">Q04771</a>	
<b>Protein length</b>	Protein fragment	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Species</b>	Human	
<b>Sequence</b>	RKFKRRNQERLNPRDVEYGTIEGLITTNVGDSTLADLLD HSCTSGSGSGL PFLVQRTVAR QITLLECVGKGGRYGEVWRGSWQGENVAVKIFSSRDEK S WFRETELYNTVMLRHENILGFI ASDMTRSRSSTQLWLITHYHEMGSLY DYLQLTTLDTVSCLRMLSLIASGLAHLHIEIFGT QGKPAIAHRDLKSK NILVKKNGQCCIADLGLAVMHSQSTNQLDVGNNPRVG TKRYMAPEV LD ETIQVDCFDSYKRVDIWAFLVLWEVARRMVSNQIVE DYKPPFYDVPND PSFEDMRK VVCVDQQRPNIPNRWFSPTLTSLAKLMKECWYQNP SARL TALRIKTLTKIDNSLDKLTDC	
<b>Predicted molecular weight</b>	67 kDa including tags	
<b>Amino acids</b>	147 to 509	
<b>Tags</b>	proprietary tag N-Terminus	
<b>Additional sequence information</b>	Cytoplasmic domain.	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab190988** 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  
Functional Studies

**Form** Liquid

## Preparation and Storage

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**Stability and Storage** Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.  
pH: 7.5  
Constituents: 25% Glycerol, 0.79% Tris HCl, 0.87% Sodium chloride, 0.31% Glutathione, 0.003% EDTA, 0.002% PMSF, 0.004% DTT  
This product is an active protein and may elicit a biological response in vivo, handle with caution.

## General Info

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**Function** On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. Receptor for activin. May be involved for left-right pattern formation during embryogenesis.

**Tissue specificity** Expressed in normal parenchymal cells, endothelial cells, fibroblasts and tumor-derived epithelial cells.

**Involvement in disease** Defects in ACVR1 are a cause of fibrodysplasia ossificans progressiva (FOP) [MIM:135100]. FOP is a rare autosomal dominant disorder of skeletal malformations and progressive extraskeletal ossification. Heterotopic ossification in FOP begins in childhood and can be induced by trauma or may occur without warning. Bone formation is episodic and progressive, leading to extra-articular ankylosis of all major joints of the axial and appendicular skeleton, rendering movement impossible.

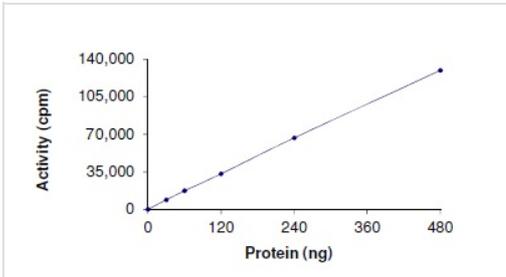
**Sequence similarities** Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFB receptor subfamily.  
Contains 1 GS domain.  
Contains 1 protein kinase domain.

**Cellular localization** Membrane.

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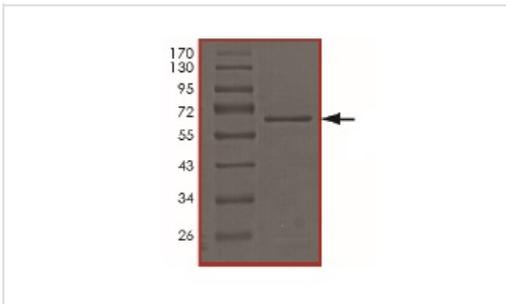
## Images

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The specific activity of ab190988 was determined to be 18 nmol/ min/ mg.

Functional Studies - Recombinant human Activin Receptor Type IA (mutated Q207 D) protein (ab190988)



The purity of ab190988 was determined to be >95% by densitometry, approx MW ~67 kDa.

SDS-PAGE - Recombinant human Activin Receptor Type IA (mutated Q207 D) protein (ab190988)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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