

ALK-7 Protein, Human, Recombinant (GST)

General Information

Protein Construction:	Recombinant human ALK7 (135-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species:	Human
Expression Host:	Baculovirus-Insect Cells
Accession:	Q8NER5
Molecular Weight:	~68 kDa

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it.
Purity:	>70% as determined by SDS-PAGE.
Formulation:	Supplied as sterile 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Enzymes are highly recommended to be shipped at frozen temperature with dry ice. Shipment made at ambient temperature may seriously affect the activity of the ordered products.

Protein Background

ALK-7, also known as ALK7 and ACVR1C, belongs to the ALK family. It is a type I receptor for the TGF β family of signaling molecules. TGF- β is the prototype of a protein superfamily which, in humans, contains at least 35 members, including activins, inhibins, bone morphogenetic proteins, growth/differentiation factors, and Müllerian inhibiting substance. ALK-7 is a serine-threonine kinase that can cause the activation of one of the SMAD signal transducers, SMAD2. ALK-7 has a ligand known as Nodal. Nodal stimulates the secretion of TIMP-1 and inhibits matrix metalloproteinases MMP-2 and MMP-9 activity. The overexpression of Nodal or constitutively active ALK-7 decreases cell migration and invasion, whereas knock-down of Nodal and ALK-7 has the opposite effects.

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