
Product Data Sheet

Product Name: ACVR1 Human
 Cat. No.: GP26002
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	ACVR1A, ALK2, ACVR1, ACTRI, ACTR-I, ACVRLK2, FOP, SKR1, TSRI, Activin receptor type I, Activin receptor-like kinase 2, ALK-2, TSR-I, Serine/threonine-protein kinase receptor R1, TGF-B superfamily receptor type I.		
Amino Acid Sequence	MEDEKPKVNP KLYMVCCEGL SCGNEDHCEG QQCFSSLSIN DGFHVYQKGC FQVYEQGMKMTCKTPSPGQA VECCQGDWCN RNITAQLPTK GKSFPGTQNF HLELEPKSCD KTHTCPPCPAPELLGGPSVF LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKPREEQYNSTYR VVSVLTVLHQ DWLNGKEYKC KVSNAKALPAP IEKTISKAKG QPREPQVYTLPPSRDELTKN QVSLTCLVKG FYPSDIAVEW ESNGQPENNY KTTTPVLDSG GSFFLYSKLTVDKSRWQQGN VFSCSVMHEA LHNHYTQKSL SLSPGKHHHH HH.		
Formulation	ACVR1 protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

Introduction

Activin A Receptor Type 1 (ACVR1) is a member of TGF-beta serine/threonine kinase receptor family. ACVR1 forms a receptor complex contains 2 type II and 2 type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, bind and activate SMAD transcriptional regulators. ACVR1 takes part in left-right pattern formation during embryogenesis and is also essential in the BMP pathway which is responsible for the development and repair of the skeletal system. ACVR1 is linked to Fibrodysplasia Ossificans Progressiva which is known for the formation of heterotopic bone throughout the body.

Stability

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

ACVR1 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 342 amino acids (21-123 a.a.) and having a molecular mass of 38.4 kDa. ACVR1 is expressed with a 239 amino acid IgG-His-Tag at C-Terminus and purified by proprietary chromatographic techniques.

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