

Recombinant Human Activin A Receptor, Type I

Cat. No. ACVR1-01H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Activin A Receptor, Type I was expressed in sf9.
Species	Human
Source	Sf9 Cells
Description	Human Activin A is a 26.0 kDa disulfide-linked homodimer of two β A chains, each containing 116 amino acid residues, belonging to the TGF- β family. It exhibits a wide range of biological activity including regulation of cellular proliferation and differentiation, and promotion of neuronal survival. Elevated levels of Activin A in human colorectal tumors and in postmenopausal women have been implicated in colorectal and breast cancers, respectively. The biological activities of Activin A can be neutralized by inhibins and by the diffusible TGF- β antagonist, follistatin.
Form	Liquid
Molecular Mass	The secreted recombinant human ALK2 consists of 123 amino acids and has a calculated molecular mass of 13.5KDa. It migrates as an approximately 17kDa band in SDS-PAGE under reducing conditions.
AA Sequence	MVDGVMILPVLIMIALPSPSMEDEKPKV/NPKLYMCVCEGLSCGNEDHCEGQQCFSS LSINDGFHVYQKGCFQVYE QGKMTCKTPSPGQAVECCQGDWCNRNITAQLPTK GKSFPGTQNFHLE
Purity	>93% as determined by SDS-PAGE.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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Storage	Store it at +4°C for short term. For long term storage, store it at -20°C ~ -70°C.
Storage Buffer	25 mM Tris-HCl, pH7.4, 300 mM NaCl ,1 mM DTT, 5% Trehalose.
GENE INFORMATION	
Gene Name	ACVR1 activin A receptor, type I [Homo sapiens]
Official Symbol	ACVR1
Synonyms	ACVR1; activin A receptor, type I; ACVRLK2; activin receptor type-1; ACVR1A; ALK2; SKR1; activin receptor type I; hydroxyalkyl-protein kinase; activin receptor-like kinase 2; TGF-B superfamily receptor type I; activin A receptor, type II-like kinase 2; serine/threonine-protein kinase receptor R1; FOP; TSRI; ACTRI;
Gene ID	90
mRNA Refseq	NM_001105
Protein Refseq	NP_001096
MIM	102576
UniProt ID	Q04771
Chromosome Location	2q23-q24
Pathway	ALK1 pathway, organism-specific biosystem; ALK1 signaling events, organism-specific biosystem; ALK2 signaling events, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor

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interaction, conserved biosystem; TGF-beta signaling pathway, organism-specific biosystem; TGF-beta signaling pathway, conserved biosystem;

Function

ATP binding; SMAD binding; activin binding; contributes_to activin receptor activity, type I; follistatin binding; metal ion binding; nucleotide binding; protein binding; protein homodimerization activity; protein serine/threonine kinase activity; receptor activity; receptor signaling protein serine/threonine kinase activity; transforming growth factor beta binding; transforming growth factor beta receptor activity, type I; transmembrane receptor protein serine/threonine kinase activity;

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