

Active Recombinant Human Activin A Receptor, Type IB

Cat. No. ACVR1B-1916H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Activin A Receptor, Type IB was expressed in <i>human 293 cells</i> .
Species	Human
Source	HEK293
Description	Xeno-free Activin AHuXp is a member of the TGF beta superfamily, expressed from human 293 cells as disulfide linked homodimer with an apparent molecular mass of 25 kDa. This cytokine is produced in a serum-free, chemically defined media. The purity is greater than 95%.
Activity	0.5 to 5 ng/mL ED50.
Purity	>95%.
Endotoxin	Endotoxin-free.
Molecular Mass	25 kDa, homodimer, nonglycosylated.
Purity Confirmation	The protein was resolved by SDS polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.
Activity Assay	The specific activity was determined by the dose-dependent inhibition of proliferation of the MPC-11 cell line (mouse plasmocytoma cell line).

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GENE INFORMATION

Gene Name	ACVR1B activin A receptor, type IB [Homo sapiens]
Synonyms	ACVR1B; activin A receptor, type IB; ALK4; SKR2; ACTRIB; ACVRLK4; ACVR1B; ActRIB; Activin receptor-like kinase 42; Serine/threonine-protein kinase receptor R2; ActRIB; serine(threonine) protein kinase receptor R2
Gene ID	91
mRNA Refseq	NM_004302
Protein Refseq	NP_004293
MIM	601300
UniProt ID	P36896
Chromosome Location	12q13
Pathway	Adherens junction; Chronic myeloid leukemia; Colorectal cancer; Cytokine-cytokine receptor interaction; Endocytosis; MAPK signaling pathway; Pancreatic cancer; Pathways in cancer; TGF-beta signaling pathway
Function	ATP binding; SMAD binding; activin binding; activin receptor activity; activin receptor activity, type I; growth factor binding; metal ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; receptor activity; transferase activity; transmembrane receptor protein serine/threonine kinase activity; ubiquitin protein ligase binding

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