

Recombinant Human Activin A Receptor, Type I

Cat. No. ACVR1-2743H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ACVR1 protein is expressed in <i>Nicotiana benthamiana</i> .
Species	Human
Source	Nicotiana Benthamiana
Description	Activins are homodimers or heterodimers of the various b subunit isoforms, belonging to the TGFb family. Mature Activin a has two 116 amino acids residues βA subunits ($\beta A - \beta A$). Activin exhibits a wide range of biological activities, including mesoderm induction, neural cell differentiation, bone remodelling, hematopoiesis, and reproductive physiology. Activins plays a key role in the production and regulation of hormones such as FSH, LH, GnRH and ACTH.
MW	recombinant protein βA chain, monomeric form 14.54 kDa containing 116 amino acid residues.
Endotoxin Level	< 0.04 EU/ μg protein (LAL method).
Formulation	Lyophilized from a buffer of Tris HCl 0.05M pH 7.4.
Storage	This lyophilized preparation is stable at 2-8 ⁰ C, but should be kept at -20 ⁰ C for long term storage. Repeated freezing and thawing is not recommended.

GENE INFORMATION

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Gene Name	ACVR1 activin A receptor, type I [Homo sapiens]
Synonyms	ACVR1; activin A receptor, type I; OTTHUMP00000204604; OTTHUMP00000204626; TGF-B superfamily receptor type I; activin A receptor, type II-like kinase 2; activin receptor type I; activin receptor type-1; activin receptor-like kinase 2; hydroxyalkyl-protein kinase; serine/threonine-protein kinase receptor R1; EC 2.7.11.30
Gene ID	90
mRNA Refseq	NM_001105
Protein Refseq	NP_001096
MIM	102576
UniProt ID	Q04771
Chromosome Location	2q23-q24
Pathway	Cytokine-cytokine receptor interaction; TGF-beta signaling pathway
Function	ATP binding; contributes_to activin receptor activity, type I; transmembrane receptor protein serine/threonine kinase activity; transforming growth factor beta binding; protein homodimerization activity

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