

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 β subunit isoforms, belonging to the TGF β family. Mature Activin a has two 116 amino acids residues β A subunits (β A - β 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 β A chain, monomeric form 14.54 kDa containing 116 amino acid residues.
Endotoxin Level	< 0.04 EU/ μ g 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°C, but should be kept at -20°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