

Recombinant Human ACVRL1, His-tagged

Cat. No. ACVRL1-26214TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 144-503 of Human ACVRL1, expressed by baculovirus in Sf9 insect cells using an N terminal proprietary tag.
Species	Human
Protein Length	144-503 a.a.
Description	This gene encodes a type I cell-surface receptor for the TGF-beta superfamily of ligands. It shares with other type I receptors a high degree of similarity in serine-threonine kinase subdomains, a glycine- and serine-rich region (called the GS domain) preceding the kinase domain, and a short C-terminal tail. The encoded protein, sometimes termed ALK1, shares similar domain structures with other closely related ALK or activin receptor-like kinase proteins that form a subfamily of receptor serine/threonine kinases. Mutations in this gene are associated with hemorrhagic telangiectasia type 2, also known as Rendu-Osler-Weber syndrome 2.
Conjugation	HIS
Biological activity	The specific activity of ACVRL1-26214TH was determined to be 22 nmol/min/mg by activity assay.
Form	Liquid
Storage buffer	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium

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	chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	RRRQEKQRGL HSELGESSLI LKASEQGDSM LGDLLSDSDCT TGSGSGLPFL VQRTVARQVA LVECVGKGGRY GEVWRGLWHG ESVAVKIFSS RDEQSWFRET EIYNTVLLRH DNILGFIASD MTSRNSSTQL WLITHYHEHG SLYDFLQRQT LEPHLALRLA VSAACGLAHL HVEIFGTQ GK PAIAHRDFKS RNVLVKSNLQ CCIADLGLAV MHSQGS DYLD IGNNPRVGTK RYMAPEVLDE QIRTDCFESY KWTDIWAFL VLWEIARRTI VNGIVEDYRP PFYDVVPNDP SFEDMKKVVC VDQQTPTIPN RLAADPVLSG LAQMMRECWY PNPSARLTAL RIKKTLQKIS NSPEKPKVIQ
Sequence Similarities	Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFB receptor subfamily.Contains 1 GS domain.Contains 1 protein kinase domain.

GENE INFORMATION

Gene Name	ACVRL1 activin A receptor type II-like 1 [Homo sapiens]
Official Symbol	ACVRL1
Synonyms	ACVRL1; activin A receptor type II-like 1; ACVRLK1, ORW2; serine/threonine-protein kinase receptor R3; ALK1; HHT; HHT2;
Gene ID	94
mRNA Refseq	NM_000020
Protein Refseq	NP_000011

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MIM	601284
Uniprot ID	P37023
Chromosome Location	12q11-q14
Pathway	ALK1 pathway, organism-specific biosystem; ALK1 signaling events, organism-specific biosystem; Id Signaling Pathway, organism-specific biosystem; TGF-beta Receptor Signaling Pathway, organism-specific biosystem;
Function	ATP binding; SMAD binding; activin binding; activin receptor activity, type I; contributes_to activin receptor activity, type I;

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