

Recombinant Human ACVR2B protein, HlgG1/His-tagged

Cat. No. ACVR2B-499H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ACVR2B fused with Human IgG1 and His tag at C-terminal was expressed in insect cells.
Species	Human
Source	Insect Cells
ProteinLength	19-134aa
Form	This recombinant protein was 0.2 μ filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.
Molecular Mass	The predicted molecular weight of Recombinant Human Act R-IIB is Mr 41 kDa (monomer). However, the actual molecular weight as observed by migration on SDS Page is Mr 55-60 kDa.
AA Sequence	sg rgeatreci yynanweler tnqsglerce geqdkrlhcy aswanssgti elvkkgcwld dfncydrqec vateenpqvy fcccegnfcn erfthlpeag gpevtyeppp taptiegrmd pkscdkthtc ppcpapellg gpsvflfppk pkdtlmisrt pevtcvvvdv shedpevkfn wyvdgvevhn aktkpreeqy nstyrvsvl tvlhqdwlng keykckvsnk alpapiekti skakgqprep qvytlppsrđ eltknqvsłt clvkgfypsd iavewesngq pennyktpp vldsdgsffl yskltvdksr whhhhhh qqgnvfscsv mhealhnhyt qkslslspgk
Endotoxin	<1.0 EU/g as determined by the LAL method

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Purity >95% by SDS-PAGE and analyzed by silver stain.

Storage This lyophilized protein is stable for six to twelve months when stored desiccated at -20 centigrade to -70 centigrade. After aseptic reconstitution, this protein may be stored at 2 centigrade to 8 centigrade for one month or at -20 centigrade to -70 centigrade in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

GENE INFORMATION

Gene Name [ACVR2B activin A receptor, type IIB \[Homo sapiens \]](#)

Official Symbol [ACVR2B](#)

Synonyms ACVR2B; activin A receptor, type IIB; activin receptor type-2B; ActR IIB; HTX4; ACTRIIB; ActR-IIB;

Gene ID [93](#)

mRNA Refseq [NM_001106](#)

Protein Refseq [NP_001097](#)

MIM [602730](#)

UniProt ID [Q13705](#)

Chromosome Location 3p22

Pathway Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Developmental Biology,

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organism-specific biosystem; Regulation of Signaling by NODAL, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by BMP, organism-specific biosystem; Signaling by NODAL, organism-specific biosystem;

Function

ATP binding; activin binding; activin receptor activity, type II; contributes_to activin receptor activity, type II; growth factor binding; inhibin beta-A binding; inhibin beta-B binding; metal ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; protein serine/threonine kinase activity; protein serine/threonine/tyrosine kinase activity; receptor activity; receptor signaling protein serine/threonine kinase activity; transforming growth factor beta-activated receptor activity; transmembrane receptor protein serine/threonine kinase activity;

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