

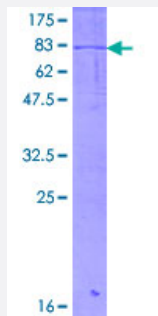
Full-Length

ACVR1C (Human) Recombinant Protein (P01)

Catalog # H00130399-P01

Size 2 ug

Applications



Specification

Product Description

Human ACVR1C full-length ORF (AAH22530.1, 1 a.a. - 493 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MTRALCSALRQALLLLAAAAELSPGLKCVCLLCDSSNFTCQTEGACWASVMLTNGKEQVIKSCV
SLPELNAQVFCHSSNNVTKECCFTDFCNNITLHLPTASPNAPKLGPMEIAIITVPVCLLSIAAMLT
VWACQGRQCSYRKKKRPNVEEPLSECNLVNAGKTLKDLIDVTASGSGSGLPLLQRTIARTIVLQ
EINGKGRFGEVWHGRWCGEDVAVKIFSSRDERYWFREAIEYQTVMLRHENILGFIAADNKDNGTW
TQLWLVSEYHEQGSLYDYLNRNVTMAGMIKLALSASGLAHLHMEIVGTQGKPAIAHRDIKSKNILV
KKCETCAIADLGLAVKHDSILNTIDIPQNPVGTKRYMAPEMLDDTMNVNIFESFKRADIYSVGLVY
WEIARRCSVGGVVEEYQLPYDMVPSDPSIEEMRKVVCDQKFRPSIPNQWQSCEALRVMGRIMR
ECWYANGAARLTALRIKKTISQLCVKEDCKA

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

79.97

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ACVR1C

Entrez GeneID[130399](#)**GeneBank Accession#**[BC022530](#)**Protein Accession#**[AAH22530.1](#)**Gene Name**

ACVR1C

Gene Alias

ACVRLK7, ALK7

Gene Description

activin A receptor, type IC

Omim ID[608981](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

ACVR1C is a type I receptor for the TGFB (see MIM 190180) family of signaling molecules. Upon ligand binding, type I receptors phosphorylate cytoplasmic SMAD transcription factors, which then translocate to the nucleus and interact directly with DNA or in complex with other transcription factors (Bondestam et al., 2001 [PubMed 12063393]).[supplied by OMIM]

Other Designations

activin receptor-like kinase 7

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](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)