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A: If you are getting this error while compiling the code then its because you haven't installed the Common Language Runtime (CLR), its a part of .Net Framework. If you try installing it from the Microsoft site or reinstall Visual Studio, it should work fine. If you have some other version of .Net Framework installed, uninstall it and re-install the latest version. Hope that helps.

Catalytic activity and substrate binding of the activin receptor type 1. Activin receptor type I (ACVR1) has multiple functions in normal tissue development. In addition to its well-described activities in the regulation of transcription factors and morphogens, ACVR1 has recently been shown to function as a kinase that can phosphorylate and activate Smad proteins. To better understand the role of ACVR1 in morphogenesis, we investigated the kinase and substrate phosphorylation activities of ACVR1. We show that ACVR1 is a dual-function kinase/substrate phosphatase that binds with high affinity to both inhibitory and activin-like ligands. We also show that recombinant ACVR1 containing the serine-threonine kinase domain is capable of tyrosine and threonine phosphorylation and that the ACVR1 kinase can be activated by autoinhibitory mechanisms in vitro. Like transforming growth factor beta receptor, ACVR1 generates a stable heterotetrameric receptor complex that undergoes ligand-dependent conformational changes. Thus, it is the complex and not the kinase activity of ACVR1 that is important in signaling events. *i n g o r d e r . - 3 , - 1 0 5 , - 1 4 5 4 P u t 0 , - 1 4 , - 3 , - 2 , 3 , 1 7 i n d e s c e n d i n g o r d e r . 1 7 , 3 , 0 , - 2 , -*

