

## Product datasheet for **TP727369**

### Acvr11 Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Mouse Activin Receptor-like Kinase 1/ALK-1/ACVRL1 (C-Fc)
Species:	Mouse
Expression cDNA Clone or AA Sequence:	Asp23-Pro119
Tag:	C-Fc
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	Recombinant Mouse Activin Receptor-like Kinase 1 is produced by our Mammalian expression system and the target gene encoding Asp23-Pro119 is expressed with a Fc tag at the C-terminus.
Stability:	12 months from date of despatch
Locus ID:	11482
UniProt ID:	<a href="#">Q61288</a>
Summary:	Activin Receptor-Like Kinase 1 (ALK-1) is a type I cell-surface receptor for the TGF- $\beta$ superfamily of ligands, which mediates signaling of BMP9 (bone morphogenetic protein) and BMP10. ALK1 signaling is necessary for angiogenesis during embryogenesis, wound healing, and tumor growth. ALK-1 has a high degree of similarity in serine-threonine kinase subdomains, a glycine and serine rich region preceding the kinase-domain, and a C-terminal tail with other activin receptor-like kinase proteins. ALK-1 is mainly expressed in endothelial cells regulating proliferation and migration in vitro and angiogenesis in vivo. Mutations in ALK-1 as well as in endoglin are associated with hereditary hemorrhagic telangiectasia (HHT), suggesting ALK-1 plays a critical role for in the control of blood vessel development or repair.



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