

Recombinant Mouse Activin Receptor-like Kinase 1, C-Fc (HEK293-expressed)

Cat. No.:	HY-P7481
Synonyms:	rMuActivin Receptor-like Kinase 1, C-Fc; ALK-1; ACVRL1; Activin Receptor-like Kinase 1
Species:	Mouse
Source:	HEK 293
Accession:	Q61288
Gene ID:	11482
Molecular Weight:	55-60 kDa

PROPERTIES

AA Sequence	D L A K P S K L V N C T C E S P H C K R P F C Q G S W C T V V L V R E Q G R H P Q V Y R G C G S L N Q E L C L G R P T E F L N H H C C Y R S F C N H N V S L M L E A T Q T P S E E P E V D A H L P
Biological Activity	Data is not available.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	Reconstitute the lyophilized recombinant Mouse Activin Receptor-like Kinase 1, C-Fc (HEK293-expressed) (rMuActivin Receptor-like Kinase 1, C-Fc) to 100 μg/mL using ddH ₂ O or diluted with PBS.
Storage & Stability	Lyophilized recombinant Mouse Activin Receptor-like Kinase 1, C-Fc (HEK293-expressed) (rMuActivin Receptor-like Kinase 1, C-Fc) is stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>ALK1 is a cell surface serine-threonine kinase that serves an established role in maintaining vascular homeostasis. Loss of function mutations in human ALK1 result in hereditary hemorrhagic telangiectasia type 2 (HHT2), characterized by the presence of arteriovenous malformations in the brain, lungs, visceral organs, and skins. In mice, homozygous deletion of Alk1 results in embryonic lethality due to severe defects in cardiovascular development. Global inducible knockout of Alk1 in adult mice results in lethality associated with the formation of arteriovenous malformations in the gastrointestinal tract and subsequent development of high output HF. For this reason, several</p>
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studies have employed the Alk1 heterozygous mouse model to study the post-natal effects of ALK1 deficiency^[1].

REFERENCES

[1]. Kevin J Morine, et al. Reduced Activin Receptor-Like Kinase 1 Activity Promotes Cardiac Fibrosis in Heart Failure. *Cardiovasc Pathol.* Nov-Dec 2017;31:26-33.

Caution: Product has not been fully validated for medical applications. For research use only.

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