

Recombinant Protein Technical Manual

Recombinant Human BMPR1B/ALK-6 Protein (aa 149-502, His&GST Tag) RPES3041

Product Data:

Product SKU: RPES3041

Size: 20µg

Species: Human

Expression host: Baculovirus-Insect Cells

Uniprot: NP_001194.1

Protein Information:

Molecular Mass:	68.3 kDa
AP Molecular Mass:	55 kDa
Tag:	N-His & GST
Bio-activity:	
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per μg as determined by the LAL method.
Storage:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping:	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at<-20°C.
Formulation:	Supplied as sterile 50mM Tris, 100mM NaCl, pH 8.5, 20% gly, 0.3mM DTT
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	ALK-6;ALK6;CDw293

Sequence: Arg 149-Leu 502

Background:

BMPR1B(bone morphogenetic protein receptor, type IB), also known as ALK6, is a a member of the bone morphogenetic protein (BMP) receptor family. BMPs are involved in endochondral bone formation and embryogenesis. These proteins transduce their signals through the formation of heteromeric complexes of 2 different types of serine (threonine) kinase receptors: type I receptors of about 50-55 kD and type II receptors of about 70-80 kD. Type II receptors bind ligands in the absence of type I receptors, but they require their respective type I receptors for signaling, whereas type I receptors require their respective type II receptors for signaling, whereas type I receptors. BMPR1B is a more effective trasducer of GDF5 than BMPR1A. Unlike BMPR1A null mice, which die at an early embryonic stage, BMPR1B null mice are viable.