

Recombinant Mouse Bone Morphogenetic Protein Receptor, Type 1A

Cat. No. Bmpr1a-1709M Lot. No. (See product label)

SPECIFICATION

Species Mouse

Source Mammalian Cells

Description Cellular responses to bone morphogenetic proteins (BMPs) have been shown to be mediated by the formation of hetero-oligomeric complexes of the type I and type II serine/threonine kinase receptors. BMP receptor 1A (BMPR-1A), also known as activin receptor-like kinase (ALK)-3, is a monomeric glycoprotein and is a one of seven known type I serine/threonine kinases that are required for the signal transduction of TGF- β family cytokines. Human and mouse BMPR-1A are highly conserved and share 98% sequence identity. BMPRIA immunohistochemistry may be a promising new tool for the identification of enteric ganglion cells in the evaluation of patients with neurointestinal disorders.

Molecular Weight The predicted molecular weight of Recombinant Mouse BMPR-1A is Mr 41.5 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 55 kDa.

State Of Matter Lyophilized.

Purity >95% by SDS Page and analyzed by silver stain.

Endotoxin <1.0 EU/g as determined by the LAL method.

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Storage And Stability

This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

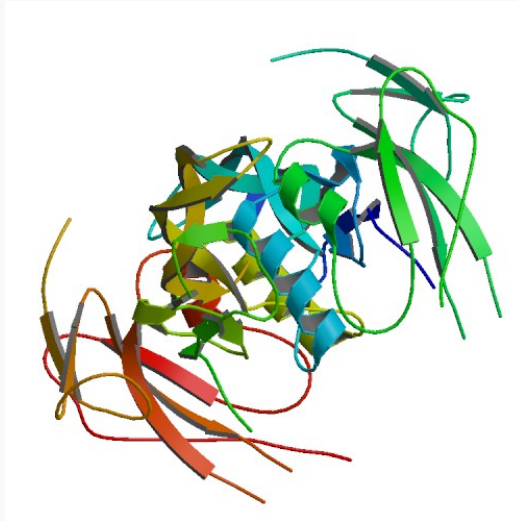
Gene Name	Bmpr1a bone morphogenetic protein receptor, type 1A [Mus musculus]
Synonyms	Bmpr1a; bone morphogenetic protein receptor, type 1A; ALK3; Bmpr; BMPR-IA; AU045487; 1110037I22Rik; EC 2.7.11.1; EC 2.7.11.30
Gene ID	12166
mRNA Refseq	NM_009758
Protein Refseq	NP_033888
UniProt ID	P36895
Chromosome Location	14 B; 14 13.0 cM
Pathway	Cytokine-cytokine receptor interaction; TGF-beta signaling pathway
Function	ATP binding; kinase activity; magnesium ion binding; manganese ion binding; metal ion binding; nucleotide binding; protein kinase activity; protein serine/threonine kinase activity; receptor activity; transferase activity; transforming growth factor beta receptor activity; transmembrane receptor protein serine/threonine kinase activity

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