

Recombinant Mouse Bone Morphogenetic Protein Receptor, Type 1A

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

SPECIFICATION

Product Overview

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.

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

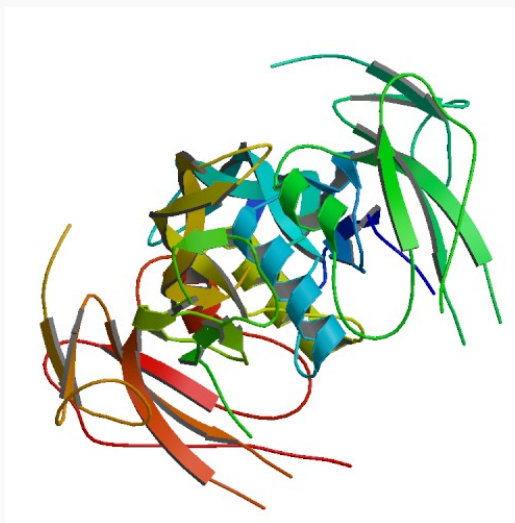
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activity; transmembrane receptor protein serine/threonine kinase activity

PDB rendering based
on 1es7.



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