Bioactive

BMPR1A (Human) Recombinant Protein

Catalog # P8465 Size 2 x 10 ug

Specification

Product Description	Human BMPR1A (P36894) recombinant protein with His-tag at C-terminal expressed in *Baculovirus* .
Host	Viruses
Theoretical MW (kDa)	23
Form	Lyophilized
Preparation Method	*Baculovirus* expression system
Purity	> 90% by HPLC and SDS PAGE
Activity	Measured by the ability to inhibit recombinant human BMP-2 induced alkaline phosphatase production by C2C12 myogenic cells. The ED_{50} for this effect is typically 1-3 ug/mL in the presence of 500 ng /mL of recombinant human BMP-2 corresponding to a Specific Activity of 2,000 units/mg.
Storage Buffer	Lyophilized from 1X PBS.
Storage Instruction	Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Applications

- Functional Study
- SDS-PAGE

Gene Info — BMPR1A

Entrez GeneID	657

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Protein Accession#	P36894
Gene Name	BMPR1A
Gene Alias	10q23del, ACVRLK3, ALK3, CD292
Gene Description	bone morphogenetic protein receptor, type IA
Omim ID	158350 174900 601299 610069
Gene Ontology	Hyperlink
Gene Summary	The bone morphogenetic protein (BMP) receptors are a family of transmembrane serine/threonine kinases that include the type I receptors BMPR1A and BMPR1B and the type II receptor BMPR2. These receptors are also closely related to the activin receptors, ACVR1 and ACVR2. The ligands of these receptors are members of the TGF-beta superfamily. TGF-betas and activins transduce their signals through the formation of heteromeric complexes with 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 ligand binding. [provided by RefSeq
Other Designations	OTTHUMP00000020014|activin A receptor, type II-like kinase 3

Pathway

- Cytokine-cytokine receptor interaction
- TGF-beta signaling pathway

Disease

- Adenomatous Polyposis Coli
- Alzheimer Disease
- Anemia
- Bacteremia
- Chromosome Deletion
- Cleft Lip
- Cleft Palate

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- Colon cancer
- Colonic Neoplasms
- Diabetes Mellitus
- Gastrointestinal Neoplasms
- Genetic Predisposition to Disease
- Insulin Resistance
- Intestinal Polyposis
- Intestinal Polyps
- Kidney Failure
- Liver Cirrhosis
- Neoplastic Syndromes
- Obesity
- Ovarian Failure
- Peutz-Jeghers Syndrome
- Polycystic Ovary Syndrome
- Polyps
- Precancerous Conditions
- Puberty
- Stomach Neoplasms
- Telangiectasia
- Thrombophilia
- Tobacco Use Disorder

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