

Recombinant Human BMPR1A Protein (Gln24-Arg152), C-Fc and 6×His-tagged

Product Information

Cat	<i>IMP-10161</i>
Official Symbol	<i>BMPR1A</i>
Product Overview	<i>Recombinant human BMPR-1A/ALK-3 protein (Gln24-Arg152) with a human IgG1 (Pro100-Lys330) Fc tag and 6×His tag C-terminus was expressed in Mouse myeloma cell line.</i>
Description	<i>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.</i>
Expression System	<i>Mouse myeloma cell line</i>
Species	<i>Human</i>
Tag	<i>C-Fc and 6×His</i>
Predicted N Terminal	<i>No results obtained: Gln24 predicted</i>
Form	<i>Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.</i>
Molecular Mass	<i>Predicted Molecular Mass: 41.5 kDa (monomer) SDS-PAGE: 55 kDa, reducing conditions</i>
Protein length	<i>Gln24-Arg152</i>
Bio-activity	<i>Measured by its ability to inhibit rhBMP-4-induced alkaline phosphatase production by ATDC5 mouse chondrogenic cells. The ED50 for this effect is 0.1-0.3 µg/mL in the presence of 30 ng/mL of recombinant human BMP-4.</i>
Endotoxin	
Purity	<i>>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.</i>
Notes	<i>Disulfide-linked homodimer</i>

Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.

Reconstitution

Reconstitute at 100 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.