PRODUCT INFORMATION

Expression system E.coli

Domain 14-126aa

UniProt No. 000238

NCBI Accession No. NP_001243723

Alternative Names

Bone morphogenetic protein receptor type-1B isoform b, ALK-6, ALK6, CDw293, BMP type-1B receptor, BMPR-1B

PRODUCT SPECIFICATION

Molecular Weight 15.1 kDa (136aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol, 1mM DTT, 0.1mM PMSF

Purity

> 80% by SDS-PAGE

Tag His-Tag

Application SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

BMPR1B also known as bone morphogenetic protein receptor type-1B isoform b. BMPR1B is on ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. It's receptor for BMP7/OP-1 and GDF5. Recombinant human BMPR1B was expressed in E. coli and purified by using conventional chromatography techniques



Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSKKEDGES TAPTPRPKVL RCKCHHHCPE DSVNNICSTD GYCFTMIEED DSGLPVVTSG CLGLEGSDFQ CRDTPIPHQR RSIECCTERN ECNKDLHPTL PPLKNRDFVD GPIHHR

General References

Ide H., et al. (1997) Oncogene 14:1377-1382. Greenman C., et al. (2007) Nature 446:153-158.

DATA

