

RPES8032

Product Information

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|---------------------|----------|-------------------------|--------|-------------------|--------|
| Product SKU: | RPES8032 | Expression Host: | E.coli | Size: | 20µg |
| Tag: | N-Gst | Reactivity: | Human | Accession: | P12643 |

Additional Information

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|-----------------------|---------------|---------------------|--------|
| Calculated MW: | 38 kDa | Observed MW: | 42 kDa |
| Sequence: | Gln283-Arg396 | | |

Protein Information

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| Background: | This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer, which plays a role in bone and cartilage development. Duplication of a regulatory region downstream of this gene causes a form of brachydactyly characterized by a malformed index finger and second toe in human patients. |
| Synonyms: | BDA2, BMP-2, BMP-2A, Bmp2, BMP2, BMP2A, Bone morphogenetic protein 2, Bone morphogenetic protein 2A |
| Endotoxin: | < 10 EU/mg of the protein as determined by the LAL method |
| Formulation: | Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol. |
| Purity: | > 90% as determined by reducing SDS-PAGE. |
| Bio-Activity: | Not validated for activity |
| Storage: | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |

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