

Active GMP Recombinant Human BMP-2 Protein

Cat. No. BMP2-01HG Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human BMP2 protein, was expressed in CHO-K1 cell-derived in an animal component free process under cGMP guidelines.
Species	Human
Source	CHO
Description	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
Form	Lyophilized powder
Endotoxin	<20 EU/mg
Bio-activity	>2.0 x 10 ⁴ IU/mg
Purity	>95.0% by high performance liquid chromatography (SEC-HPLC) and SDS-PAGE.
Storage Buffer	10mM Phosphate-Buffered Saline (pH 7.2)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Stable storage at 4°C for 7-10 days; for long-term storage, please store at -20°C after dispensing.
Sterility	Sterility
Instructions	It is recommended that lyophilized GMP rhBMP2 be dissolved in water for injection or sterilized ultrapure water at a concentration of not less than 100 µg/ml, pending further dilution to working concentration.

GENE INFORMATION

Gene Name	BMP2 bone morphogenetic protein 2 [Homo sapiens (human)]
Official Symbol	BMP2
Synonyms	BDA2; BMP2A; SSFSC; SSFSC1
Gene ID	650
mRNA Refseq	NM_001200.4
Protein Refseq	NP_001191.1
UniProt ID	P12643
MIM	112261

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