

Active Recombinant Human Bone Morphogenetic Protein 8a

Cat. No. BMP8A-587H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human BMP8A protein was expressed in Chinese Hamster Ovary cell line. Ala264-His402.
Species	Human
Source	CHO
Protein Length	264-402 a.a.
Description	BMP8A, also known as osteogenic protein 2 (OP-2), was first isolated from a hippocampal library in a screen to identify relatives of BMP-7/OP-1. BMPs are a family of structurally and functionally related proteins and represent a subfamily of the transforming growth factor β (TGF- β) superfamily. BMPs are involved in a wide range of processes including embryogenesis, tissue morphogenesis, cell differentiation and migration, and tumorigenesis. Cellular responses to BMPs are mediated by heterooligomeric complexes of type I and type II serine/threonine kinase receptors.
Form	Lyophilized from a 0.2 μ m filtered solution in HCl.
N-terminal Sequence	Ala264
Molecular Weight	15.7 kDa (monomer)
Activity	Measured by its ability to inhibit the cell growth of DU145 human prostate carcinoma cells. The ED50 for this effect is typically 0.2-1 μ g/mL.

 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

Endotoxin Level	< 1.0EU per 1 µg of the protein by the LAL method.
SDS-PAGE	19 kDa, reducing conditions.
Purity	> 95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	250 µg/mL in 4 mM HCl.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	BMP8A bone morphogenetic protein 8a [Homo sapiens]
Official Symbol	BMP8A
Synonyms	BMP8A; bone morphogenetic protein 8a; bone morphogenetic protein 8A; BMP-8A
Gene ID	353500
mRNA Refseq	NM_181809
Protein Refseq	NP_861525
UniProt ID	Q7Z5Y6
Chromosome Location	1p35-p32

 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

Pathway	Hedgehog signaling pathway; TGF-beta signaling pathway
----------------	--

Function	cytokine activity; growth factor activity
-----------------	---

 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