



Bone Morphogenetic protein-2, HEK, human recombinant (rHuBMP-2-HEK)

Catalog No: 97420
Lot No: XXXXX
Source: HEK
Synonyms: BMP-2, BMP2A

Background

BMP2 belongs to the transforming growth factor-beta (TGFB) superfamily. Bone morphogenic protein induces bone formation. BMP2 is a candidate gene for the autosomal dominant disease of fibrodysplasia (myositis) ossificans progressiva.

Description

BMP-2 Human Recombinant produced in HEK cells is a glycosylated disulfide-linked homodimer, having a molecular weight range of 28kDa due to glycosylation. The BMP2 is purified by proprietary chromatographic techniques. .

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

BMP2 was lyophilized from 0.67mg/ml in 2xPBS + 6% ethanol.

Solubility

It is recommended to reconstitute the lyophilized BMP-2 in sterile **4mM HCl** containing 0.1% endotoxin-free recombinant HSA.

Stability

Lyophilized BMP2, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BMP-2 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 95% as observed by SDS-PAGE.

Activity

The specific activity as determined by the dose dependent induction of alkaline phosphatase production in the ATDC-5 cell line (Mouse chondrogenic cell line) was found to be 6.53ng/ml.

Amino Acid Sequence

QAKHKQRKRLKSSCKRHPLYVDFSDVGVNDWIVAPPGYHAFYCHGECPPFLADHLNSTNHAIVQTLVNSVNSKIPKACCVPTELSAISMLY
LDENEKVVLLKNYQDMVVEGCGCR.

Usage

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