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## Datasheet for ABIN2017700 GDF10 Protein (AA 369-478)

### Overview

Quantity:	50 µg
Target:	GDF10
Protein Characteristics:	AA 369-478
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

### Product Details

Characteristics:	AA 369-478, expressed with an N-terminal Met.
Purity:	> 95 % as analyzed by SDS-PAGE and HPLC.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

### Target Details

Target:	GDF10
Alternative Name:	Bone Morphogenetic Protein-3B (BMP-3B) ( <a href="#">GDF10 Products</a> )
Background:	Bone Morphogenetic Protein-3B (BMP-3B) , also known as Growth/Differentiation Factor 10 (GDF-10), is a cytokine belonging to the Transforming Growth Factor beta (TGF-beta) superfamily. BMP-3B contains the cystine knot motif shared by other TGF-beta family members. BMP-3B was originally identified by PCR based on the BMP-3 sequence, and shares 83 % identity with BMP-3. BMP-3B and BMP-2 act as mutual antagonists, as they compete for the availability of signaling protein Smad4. In vivo, BMP-3B is highly expressed in brain, lungs,

## Target Details

and bone tissues. The functions of BMP-3B include acting as a dorsaling factor in head development, inhibition of adipogenesis in adipocytes, and induction of bone formation. BMP-3B is down-regulated in lung cancer patient samples, indicating its potential antitumor activity. Recombinant human Bone Morphogenetic Protein-3B (rhBMP-3B) produced in E. coli is a disulfide-linked homodimer containing two non-glycosylated polypeptide chains of 111 amino acids each. rhBMP-3B has a molecular mass of 25.1 kDa analyzed by non-reducing SDS-PAGE. Synonyms: Osteogenin, BMP-3A

Molecular Weight: 25.1 kDa, observed by non-reducing SDS-PAGE.

UniProt: [P55107](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Reconstituted in 4 mM HCl at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against 4 mM HCl.

Storage: -80 °C

Storage Comment: Lyophilized recombinant human Bone Morphogenetic Protein-3B (rhBMP-3B) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhBMP-3B remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Expiry Date: 6 months