

Animal-Free BMP-12/GDF-7 Protein, Human (His)

Cat. No.:	HY-P700021AF
Synonyms:	Growth/Differentiation Factor-7; GDF-7
Species:	Human
Source:	E. coli
Accession:	Q7Z4P5 (T322-R450)
Gene ID:	151449
Molecular Weight:	Approximately 14.95 kDa

PROPERTIES

AA Sequence	<p> M T A L A G T R T A Q G S G G G A G R G H G R R G R S R C S R K P L H V D F K E L G W D D W I I A P L D Y E A Y H C E G L C D F P L R S H L E P T N H A I I Q T L L N S M A P D A A P A S C C V P A R L S P I S I L Y I D A A N N V V Y K Q Y E D M V V E A C G C R </p>
Biological Activity	Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED ₅₀ for this effect is <112 ng/mL
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 3.5.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>BMP-12/GDF-7 Protein is postulated to play an active role, potentially exerting its influence in the motor area of the primate neocortex. Existing as a homodimer with disulfide-linkages, this protein's specific mechanisms and molecular interactions within the motor area remain to be fully elucidated. The distinct structural characteristics of the homodimer suggest a unique mode of action, possibly contributing to cellular events that are integral to the function and regulation of the motor area in the primate neocortex. Further research is warranted to uncover the precise details of BMP-12/GDF-7 Protein's role in this neural context and its potential implications in motor-related processes.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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