CEMP1 Protein, Human (P.pastoris, His)

Cat. No.:	HY-P71836
Synonyms:	Cementoblastoma-derived protein 1; Cementum protein 1; Cementum protein 23; CEMP1; CP-23; CP23
Species:	Human
Source:	P. pastoris
Accession:	Q6PRD7 (1M-247G)
Gene ID:	752014
Molecular Weight:	Approximately 28.0 kDa

PROPERTIES

AA Sequence	M G T S S T D S Q Q A G H R R C S T S N T S A E N L T C L S L P G S P G K T A P L P G P A Q A G A G Q P L P K G C A A V K A E V G I P A P H T S Q E V R I H I R R L L S W A A P G A C G L R S T P C A L P Q A L P Q A R P C P G R W F F P G C S L P T G G A Q T I L S L W T W R H F L N W A L Q Q R E E N S G R A R R V P P V P R T A P V S K G E G S H P P Q N S N G E K V K T I T P D V G L H Q S L T S D P T V A V L R A K R A P E A H P P R S C S G S L T A R V C H M G V C Q G Q G D T E D G R M T L M G
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	The CEMP1 protein is implicated in potentially playing a crucial role in the development of the periodontium, the supportive tissue surrounding the teeth. It is suggested to promote the differentiation of multi-potent cells from the periodontal ligament into cementoblasts, contributing to the formation of the cementum, as evidenced by various studies. CEMP1 exhibits an affinity for hydroxyapatite and may play a role in promoting the biomineralization of the cementum, further underlining its potential involvement in the mineralization processes of dental tissues. Additionally, CEMP1 is associated with the promotion of cell proliferation, as supported by multiple studies. The multifaceted functions of CEMP1 in

periodontal development and tissue mineralization emphasize its significance in dental biology, warranting further exploration to unravel its specific mechanisms and regulatory roles in these processes.

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