

OSTM1 Protein, Human (HEK293, His)

Cat. No.:	HY-P76531
Synonyms:	Osteopetrosis-associated transmembrane protein 1; Chloride channel 7 beta subunit; GL
Species:	Human
Source:	HEK293
Accession:	Q86WC4 (A32-P284)
Gene ID:	28962
Molecular Weight:	Approximately 32-60 kDa due to the glycosylation

PROPERTIES

AA Sequence	<p> A L P F G S S P H R V F H D L L S E Q Q L L E V E D L S L S L L Q G G G L G P L S L P P D L P D L D P E C R E L L L D F A N S S A E L T G C L V R S A R P V R L C Q T C Y P L F Q Q V V S K M D N I S R A A G N T S E S Q S C A R S L L M A D R M Q I V V I L S E F F N T T W Q E A N C A N C L T N N S E E L S N S T V Y F L N L F N H T L T C F E H N L Q G N A H S L L Q T K N Y S E V C K N C R E A Y K T L S S L Y S E M Q K M N E L E N K A E P G T H L C I D V E D A M N I T R K L W S R T F N C S V P C S D T V P </p>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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>OSTM1 protein is essential for the maturation and function of osteoclasts and melanocytes. It forms heteromers with chloride channel 7 (CLCN7), where the alpha subunit is represented by CLCN7, and the beta subunit is provided by OSTM1. Together, these heteromeric complexes contribute to the regulation of chloride channels and play a critical role in cellular processes related to bone remodeling and pigmentation. The interaction between OSTM1 and CLCN7 underscores the cooperative nature of these proteins in maintaining the functionality and maturation of osteoclasts and melanocytes.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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