TNFRSF11B/OPG Protein, Human (HEK293, hFc-Flag)

Cat. No.:	HY-P700432
Synonyms:	Tumor Necrosis Factor Receptor Superfamily Member 11B; Osteoclastogenesis Inhibitory Factor; Osteoprotegerin; TNFRSF11B; OCIF; OPG
Species:	Human
Source:	HEK293
Accession:	O00300 (E22-L401)
Gene ID:	4982
Molecular Weight:	73.5 kDa

PROPERTIES

AA Sequence	E T F P P K Y L H Y D E E T S H Q L L C D K C P P G T Y L K Q H C T A K W K T V C A P C P D H Y Y T D S W H T S D E C L Y C S P V C K E L Q Y V K Q E C N R T H N R V C E C K E G R Y L E I E F C L K H R S C P P G F G V V Q A G T P E R N T V C K R C P D G F F S N E T S S K A P C R K H T N C S V F G L L L T Q K G N A T H D N I C S G N S E S T Q K C G I D V T L C E E A F F R F A V P T K F T P N W L S V L V D N L P G T K V N A E S V E R I K R Q H S S Q E Q T F Q L L K L W K H Q N K D Q D I V K K I I Q D I D L C E N S V Q R H I G H A N L T F E Q L R S L M E S L P G K K V G A E D I E K T I K A C K P S D Q I L K L L S L W R I K N G D Q D T L K G L M H A L K H S K T Y H F P K T V T Q S L K K T I R F L H S F T M Y K L Y Q K L F L E M I G N Q V Q S V K I S C L
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, 6% Trehalose, pH 7.4.
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	TNFRSF11B/OPG acts as a decoy receptor for TNFSF11/RANKL, effectively neutralizing its function in osteoclastogenesis. Inhibiting the activation of osteoclasts, it promotes their apoptosis in vitro, highlighting its critical role in bone homeostasis by modulating the local ratio between TNFSF11 and TNFRSF11B. Furthermore, TNFRSF11B may play a role in preventing

	arterial calcification and act as a decoy receptor for TNFSF10/TRAIL, offering protection against apoptosis. The homodimeric structure of TNFRSF11B underscores its ability to interact with TNFSF10 and TNFSF11, thus regulating essential pathways in bone metabolism and cellular survival.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA