

## 32-7450: Recombinant Human Osteoactivin/GPNMB (C-6His)

**Gene :** GPNMB  
**Gene ID :** 10457  
**Uniprot ID :** Q14956

### Description

Source: Human Cells.  
MW :53.09kD.

Recombinant Human 0 is produced by our Mammalian expression system and the target gene encoding Ala22-Pro486 is expressed with a 6His tag at the C-terminus. Osteoactivin is an intracellular glycoprotein belongs to the NMB/pMEL-17 family, which is associated with cell endosomal/lysosomal compartments. Human Osteoactivin is a 560 amino acid type I transmembrane protein, and one alternate splice form shows a 12 amino acid insert between amino acid 339-340. An additional 206 amino acid isoform shows a mutation at position 181 that results in a 26 amino acid substitution for the C-terminal 380 amino acids. Cells known to express Osteoactivin include fibroblast, osteoblasts, myeloid dendritic cell, melanocytes, plus fetal chondrocytes and stratum basale keratinocytes, macrophages/keratinocytes.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** AKRFHDLGNERPAYMREHNQLNGWSSDENDWNEKLYPVWKRGD MRWKNSWKGGRVQAVLTSDSPALVGSNITFAVNLIFFRCQKEDANGNIVYEKNCRNEAGLSADPYVYNWTAWSESDGNGTGQSHHNVFPDGKPFPHHPGWRRWNFIYVFHTLGQYFQKLGRC SVRVSNTANVTLGPQLMEVTYRRHGRAYVPIAQVKD VYVVD QIPVFVTMFQKNDRNSSDETFLKDL PIMFDVLIHDP SHFLNYSTINYKWSFGDNTGLFVSTNHTVNH TYVLNGTFLSLNLTV KAAAPGPCPPPPPPRPSKPTPSLATTLSYDSNTPGPAGDNPLELSRIPDENCQINRYGHFQATITIVEGILEVNIIQM TDVLMVPWPPESSLIDFVVT CQGSIPTEVCTIISDPTCEITQNTVCSPVDVDEMCLLTVRRTFNGSGTYCVNLT LGDDTSLALTSTLISVPVDH HHHHHH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.