NELL1 Blocking Peptide (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	NELL1, Blocking Peptide
Full Product Name	NELL1 Blocking Peptide (N-term)
Product Gene Name	NELL1 blocking peptide
Product Synonym Gene Name	NRP1
Product Synonym Names	Protein kinase C-binding protein NELL1; NEL-like protein 1; Nel-related protein 1; NELL1; NRP1
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	NELL1 peptide (MBS9228992) is used for blocking the activity of NELL1 antibody (MBS9208204)
Molecular Weight	84,377 Da
OMIM	602319
Cellular Location	Cytoplasm. Nucleus envelope. Secreted. Note: Colocalizes with ATRAID on the nuclear envelope and the perinuclear region
Related Product Information for NELL1 blocking peptide	Plays a role in the control of cell growth and differentiation. Promotes osteoblast cell differentiation and terminal mineralization.
Other Notes	Small volumes of NELL1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NELL1 purchase	MBS9228992 is a blocking peptide targeting NELL1. Also known as NELL1 Blocking Peptide (N-term).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NELL1. It may not necessarily be applicable to this product.

NCBI GI #	311033486
NCBI GeneID	4745
NCBI Accession #	Q92832.4
UniProt Primary Accession #	Q92832
UniProt Secondary Accession #	Q4VB90; Q4VB91; Q6NSY8; Q9Y472; B2CKC1
UniProt Related Accession #	Q92832
NCBI Official Full Name	Protein kinase C-binding protein NELL1
NCBI Official Synonym Full Names	neural EGFL like 1
NCBI Official Symbol	NELL1
NCBI Official Synonym Symbols	NRP1; IDH3GL
UniProt Protein Name	Protein kinase C-binding protein NELL1
UniProt Synonym Protein Names	NEL-like protein 1; Nel-related protein 1

Protein Family	Protein kinase C-binding protein
UniProt Gene Name	NELL1
UniProt Synonym Gene Names	NRP1
UniProt Entry Name	NELL1_HUMAN
NCBI Protein Information	protein kinase C-binding protein NELL1
NCBI Summary for NELL1	This gene encodes a cytoplasmic protein that contains epidermal growth factor (EGF)-like repeats. The encoded heterotrimeric protein may be involved in cell growth regulation and differentiation. A similar protein in rodents is involved in craniosynostosis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]
UniProt Comments for NELL1	NELL1: Plays a role in the control of cell growth and differentiation. Promotes osteoblast cell differentiation and terminal mineralization. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 11p15.1 Cellular Component: cytoplasm; nuclear envelope; perinuclear region of cytoplasm Molecular Function: protein binding Biological Process: negative regulation of osteoblast proliferation; nervous system development; positive regulation of bone mineralization; positive regulation of osteoblast differentiation; regulation of gene expression
Research Articles on NELL1	**1.** establish the feasibility of combining NELL-1 with BMP2 to improve clinical bone regeneration and provide mechanistic insight into canonical Wnt pathway activity during NELL-1 and BMP2 osteogenesis
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