

NBL1 active protein

NBL1 Protein, Human, Recombinant (hFc Tag)

CATALOG #
AAA257834

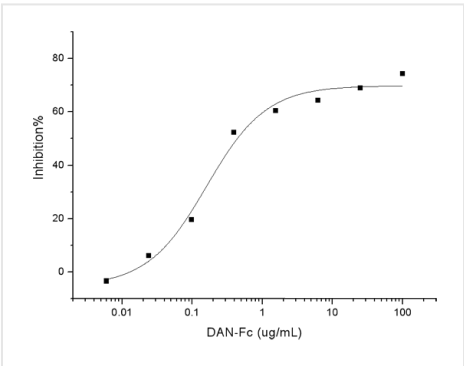
HOST
HEK293 Cells

PRODUCT SYNONYMS

NBL1; NBL1 Protein; Human; Recombinant (hFc Tag); Human NBL1/DAND1/DAN Protein (Fc Tag); D1S1733E Protein; DAN Protein; DAND1 Protein; NB Protein; NO3 Protein; neuroblastoma 1; DAN family BMP antagonist; NBL1 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>90% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Asp18 0
Species	Human
Activity	Measured by its ability to inhibit BMP4-induced activity in MC3T3-E1 Mouse osteoblastic cells. The ED50 for this effect is typically 0.2-1.2ug/ml in the presence of 50ng/mL of recombinant human BMP4.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Ala 16
Tag	C-human IgG1-Fc
Protein Construction	A DNA sequence encoding the human DAN precursor (NP_005371.1)(Met 1-Asp 180) was expressed with C-terminal fused Fc region of human IgG1.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured by its ability to inhibit BMP4-induced activity in MC3T3-E1 Mouse osteoblastic cells. The ED50 for this effect is typically 0.2-1.2 ug/ml in the presence of 50 ng/mL of recombinant human BMP4.

ADDITIONAL INFORMATION

Related Product Information for NBL1 active protein	Background: The Dan (Differential screening-selected gene aberrative in neuroblastoma, also known as N03) gene was first identified as the putative rat tumor suppressor gene and encodes a protein structurally related to Cerberus and Gremlin in the vertebrates. It is a founding member of the DAN family of secreted proteins, acts as an inhibitor of cell cycle progression, and is closely involved in retinoic acid-induced neuroblastoma differentiation. There are at least five mammalian protein members in the evolutionarily conserved Dan family including DAN, Gremlin/DRM, Cer1 (Cerberus-related), Dante, and PRDC (protein related to DAN and Cerberus), and share the C-terminal cystine-knot motif. As a secreted glycoprotein, DAN is a member of a class of glycoproteins shown to be secreted inhibitors of the transforming growth factor-beta (TGF-beta) and bone morphogenic protein pathways. It binds to BMPs and preventing their interactions with signaling receptor complexes, and accordingly regulates the processes of embryonic development and tissue differentiation. DAN gene product may have an important role in the regulation of the entry of cells into the S phase. Besides, the DAN gene product possesses an ability to revert phenotypes of transformed rat fibroblasts and represents a candidate tumor suppressor gene for neuroblastoma.
References	Ozaki T, et al. (1995) Overexpression of DAN gene product in normal rat fibroblasts causes a retardation of the entry into the S phase. Cancer Res. 55(4): 895-900.Nakamura Y, et al. (1997) A product of DAN, a novel candidate tumour suppressor gene, is secreted into culture medium and suppresses DNA synthesis. Eur J Cancer. 33(12): 1986-90.Ogita J, et al. (2001) Expression of the Dan gene during chicken embryonic development. Mech Dev. 109(2): 363-5.Kim AS, et al. (2003) Expression of the BMP antagonist Dan during murine forebrain development. Brain Res Dev Brain Res. 145(1): 159-62.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885509
NCBI GeneID	4681
NCBI Accession #	NP_005371.1
NCBI GenBank Nucleotide #	NM_005380.4
Molecular Weight	23,169 Da
NCBI Official Full Name	neuroblastoma suppressor of tumorigenicity 1 isoform 2
NCBI Official Synonym Full Names	neuroblastoma 1, DAN family BMP antagonist
NCBI Official Symbol	NBL1
NCBI Official Synonym Symbols	NB; DAN; NO3; DAND1; D1S1733E
NCBI Protein Information	neuroblastoma suppressor of tumorigenicity 1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-active-protein/nbl1/257834>