

## Product datasheet for TP306026M

### NISCH (NM\_007184) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human nischarin (NISCH), 100 µg  
**Species:** Human  
**Expression Host:** HEK293T  
**Expression cDNA Clone or AA Sequence:** >RC206026 protein sequence  
Red=Cloning site Green=Tags(s)

MATARTFGPEREAEPAKEARVVGSELVDITYTVYIIQVTDGSHEWTVKHRYSDFHDLHEKLVAERKIDKNL  
 LPPKKIIGKNSRSLVEKREKDLLEVYLQKLLAAFPVTPRVLAHFLHFHFEINGITAALAEELFEKGEQL  
 LGAGEVFAIGPLQLYAVTEQLQQGKPTCASGDAKTDLGHILDFTCRLKYLKVSGETGPFPGTSNIQEQLLP  
 FDSLIFKSLHQVEISHCDAKHIRGLVASKPTLATLSVRFSAISMKEVLVPEASEFDEWEPEGTTLEGPVT  
 AVIPTWQALTTLDLSHNSISEIDESVKLIPKIEFLDLSHNGLLVVDNLQHLYNLVHLDLSYNKLSLEGL  
 HTKLGNIKTLNLAGNLLLESLSGLHKLYSLVNLDLRDNRIEQMEEVRSIGSLPCLEHVSLNNPLSIIPDY  
 RTKVLAQFGERASEVCLDDTVTTEKELDTVEVLKAIQKAKEVSKLSNPEKKGEDSRLSAAPCIRPSSS  
 PPTVAPASALPQPILSNQGIMFVQEEALASSLSSTDSLTPHQPIAQGCSDSLESIPAGQAASDDLDRDV  
 PGAVGGASPEHAPEVQVWPGSGQIIFLPFTCIGYTATNQDFIQRLSTLIRQAIERQLPAWIEAANQREE  
 GQGEQGEEDDEEEEDVAENRYFEMGPPDVEEEEGGGQGEEDDEEAEERLALAWALGADEDF  
 LLEHIRILKVLWCFLIHVQGSIRQFAACLVLTDFGIAVFEIPHQESRGSSQHILSSLRVFCFPHGDLTE  
 FGFLMPELCLVLKVRHSENTLFIISDAANLHEFHADLRSCFAPQHMAMLCSPILYGSHTSLQEFRLQLLT  
 FYKVAGGCQERSQGCFPVYLVYSDKRMVQTAAGDYSGNIEWASCTLCSAVRRSCCAPSEAVKSAAIPIYWL  
 LLTPQHNLNVIKADFNPMNPNRGTHNCRNRNSFKLSRVPLSTVLLDPTRSQPRGAFADGHVLELLVGYRF  
 VTAIFVLPHEKHFHFLRVYNQLRASLQDLKTVVIKTPGTGGSPQGSFADGQPAERRASNDQRPQEVPAEA  
 LAPAPVEVPAPAPAAAASASGPAKTPAPAEASTSALVPEETPVEAPAPPAEAPAQYPSEHLIATSEENQ  
 IPPHLPACPSLRHVASLRGSAIIELFHSSIAEVENEELRHLMWSSVVFYQTPGLEVTACVLLSTKAVYFV  
 LHDGLRRYFSEPLQDFWHQKNTDYNNSPFHISQCFVLKLSDLQSVNVGLFDQHFRLTGSTPMQWVTCCLR  
 DSYLTHCFLQHLMVVLSLERTPSPEPVDKDFYSEFGNKTGKMMENYELIHSSRVKFTYPSSEEEIGDLTF  
 TVAQKMAEPEKAPALSILLYVQAFQVGMPPPCCGRPLRPKTLTSSIFLLDEDCVHYLPEFAKEPP  
 QRDRYRLDDGRRVRDLDRVLMGYQTYPQALTLVFDDVQGHDLMGSVTLDFHGEVPGGPARASQGREVQWQ  
 VFVPSAESREKLISLLARQWEALCGRELPVELTG

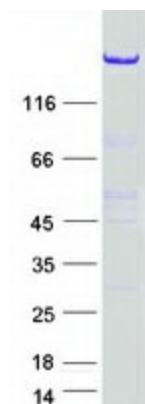
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-Myc/DDK



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<b>Predicted MW:</b>	166.5 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_009115</a>
<b>Locus ID:</b>	11188
<b>UniProt ID:</b>	<a href="#">Q9Y211</a>
<b>RefSeq Size:</b>	5252
<b>Cytogenetics:</b>	3p21.1
<b>RefSeq ORF:</b>	4512
<b>Synonyms:</b>	hIRAS; I-1; IR1; IRAS
<b>Summary:</b>	<p>This gene encodes a nonadrenergic imidazoline-1 receptor protein that localizes to the cytosol and anchors to the inner layer of the plasma membrane. The orthologous mouse protein has been shown to influence cytoskeletal organization and cell migration by binding to alpha-5-beta-1 integrin. In humans, this protein has been shown to bind to the adapter insulin receptor substrate 4 (IRS4) to mediate translocation of alpha-5 integrin from the cell membrane to endosomes. Expression of this protein was reduced in human breast cancers while its overexpression reduced tumor growth and metastasis; possibly by limiting the expression of alpha-5 integrin. In human cardiac tissue, this gene was found to affect cell growth and death while in neural tissue it affected neuronal growth and differentiation. Alternative splicing results in multiple transcript variants encoding different isoforms. Some isoforms lack the expected C-terminal domains of a functional imidazoline receptor. [provided by RefSeq, Jan 2013]</p>
<b>Protein Families:</b>	Druggable Genome

**Product images:**

Coomassie blue staining of purified NISCH protein (Cat# [TP306026]). The protein was produced from HEK293T cells transfected with NISCH cDNA clone (Cat# [RC206026]) using MegaTran 2.0 (Cat# [TT210002]).