

Recombinant Human NISCH Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. NISCH-2229H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	NISCH MS Standard C13 and N15-labeled recombinant protein (NP_009115) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	166.7 kDa
AA Sequence	MATARTFGPEREAEPAKEARVVGSELVDITYTVYIIQVTDGSHEWTVKHRYSDFHDL

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HEKLVAERKIDKNLLPPKKIIGKNSRSLVEKREKDLEVYLQKLLAAFPGVTPRVLAHFL
 HFHFYEINGITAALAEELFEKGEQLLGAGEVFAIGPLQLYAVTEQLQQGKPTCASGDA
 KTDLGHILDFTCRLKYLKVSGETGPFGTSTNIQEQLLPFDLSIFKSLHQVEISHCDAKHI
 RGLVASKPTLATLSVRFSATSMKEVLVPEASEFDEWEPEGTTLEGPVTAVIPTWQAL
 TTLDSLHNSISEIDESVKLIPKIEFLDSLHNGLLVVDNLQHLYNLVHLDLSYNKLSSLEG
 LHTKLGNIKTNLNAGNLLSGLHKLKLYSLVNLDRDNRIEQMEEVRSIGSLPCLEHVS
 LLNNPLSIIPDYRTKVLAQFGERASEVCLDDTVTTEKELDTVEVLKAIQKAKEVKSCLS
 NPEKKGGEDSRLSAAPCIRPSSSPPTVAPASASLPQPILSNQGIMFVQEEALASSLSS
 TDSLTPHEHQPIAQGCSDSLESIPAGQAASDDL RDVPGAVGGASPEHAEPEVQVVP
 SGQIIFLPFTCIGYTATNQDFIQRLSTLIRQAIERQLPAWIEAANQREEGQGEQGEED
 EEEEEEDVAENRYFEMGPPDVEEEE GGGQGE EEEEEEEDEEAE EERLAEWALG
 ADEDFLLEHIRILKVLWCFLIHVQGSIRQFAACLVLTDFGI AVFEIPHQESRGSSQHILS
 SLRFVFCFPHGDLTEFGFLMPELCLVLKVRHSENTLFIISDAANLHEFHADLRSCFAP
 QHMAMLCSPILYGSHTSLQEFLRQLLTFYKVAGGCQERSQGCFPVYLVYSDKRMVQ
 TAAGDYSGNIEWASCTLCSAVRRSCCAPSEAVKSAAIPYWLLLTPQHNLVIKADFN
 MPNRGTHNCRNRNSFKLSRVPLSTVLLDPTRSTQPRGAFADGHVLELLVGYRFVT
 AIFVLPHEKFHFLRVYNQLRASLQDLKT VVIKTPGTGGSPQGSFADGQPAERRASN
 DQRPQEVPAEALAPAPVEVPAPAPAAAASASGPAKTPAPAEASTSALVPEETPVEAP
 APPPAEAPAQYPSEHLIATSEENQIPPHLPACPSLRHVASLRGSAIIELFHSSIAEVE
 NEELRHLMWSSVVFYQTPGLEVTACVLLSTKAVYFVLHDGLRRYFSEPLQDFWHQK
 NTDYNNSPFHISQCFVLKLSDLQSVNVGLFDQHFRLTGSTPMQVVTCLTRDSYLTHC
 FLQHLMVVLSSLERTPSPEPVDKDFYSEFGNKTGKMEYELIHSSRVKFTYPSEEEI
 GDLTFTVAQKMAEPEKAPALSILLYVQAFQVGMPPPGCCRGPLRPKTLTLLTSSEIFLL
 DEDCVHYPLPEFAKEPPQRDRYRLDDGRRVRDLDRVLMGYQTYPQALT LVFDDVQ
 GHDLMGSVTL DHFGEVPGGPARASQGREVQWQVFPVSAESREKLISLLARQWEAL
 CGREL PVELTGTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling

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conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name NISCH nischarin [Homo sapiens (human)]

Official Symbol NISCH

Synonyms NISCH; nischarin; I 1; I 1 receptor candidate protein; imidazoline receptor antisera selected; imidazoline receptor candidate; IRAS; KIAA0975; IR1; hIRAS; I1R candidate protein; imidazoline receptor 1; I-1 receptor candidate protein; imidazoline-1 receptor candidate protein; imidazoline receptor antisera-selected protein; I-1; FLJ14425; FLJ40413; FLJ90519;

Gene ID 11188

mRNA Refseq NM_007184

Protein Refseq NP_009115

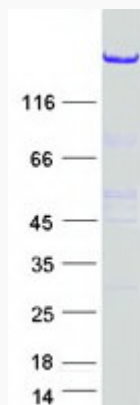
MIM 615507

UniProt ID Q9Y2I1

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SDS-PAGE

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