

Product datasheet for PH306026

NISCH (NM_007184) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	NISCH MS Standard C13 and N15-labeled recombinant protein (NP_009115)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC206026
Predicted MW:	166.7 kDa
Protein Sequence:	>RC206026 protein sequence Red=Cloning site Green=Tags(s)

MATARTFGPEREAPEAKEARVVGSELVDTYTVYIIQVTDGSHEWTVKHRYSDFHDLHEKLV AERKIDKNL
LPPKKIIGKNSRSLVEKREKDLVYLLQKLLAAFPVTPRVLAHFLHFHYEINGITAALAEELFEKGEQL
LGAGEVFAIGPLQLYAVTEQLQQKPTCASGDAKTDLGHILDFTCRLKYLKVSGETGPFGTSNIQEQLLP
FDLSIFKSLHQVEISHCDAKHIRGLVASKPTLATLSVRFSAATSMKEVLVPEASEFDEWEPEGTTLEGPVT
AVIPTWQALTTLDL SHNSISEIDESVKLIPKIEFLDL SHNGLLVVDNLQHL YNLVHLDL SYNKLSLEGL
HTKLGNIKTLNLAGNLESLSGLHKL YSLVNLDRDNRIEQMEEVRSIGSLPCLEHVSLNPLSIIPDY
RTKVL AQFGERASEVCLDDTVTTEKELDTVEVLKAIQKAKEVSKLSNPEKKGEDSRLSAAPCIRPSSS
PPTVAPASASLPQPILSNQGIMFVQEEALASSLSSTDSL TPEHQPIAQGCSDSLESIPAGQAASDDL RDV
PGAVGGASPEHAPEVQVVPGSGQIIFLPFTCIGYTATNQDFIQRLSTLIRQAIERQLPAWIEAANQREE
GQGEQGEEDDEEEEDVAENRYFEMGPPDVEEEEGGQGEEDDEEAEERLALAWALGADEDF
LLEHIRILKVLWCFLIHVQGSIRQFAACLVL TDFGI AVFEIPHQESRGSSQHILSSLRVFCFPHGDLTE
FGFLMPELCLVLKVRHSENTLFIISDAANLHEFHADLRSCFAPQHMAMLCSPILYGSHTSLQEFLRQLLT
FYKVAGGCQERSQGCFPVYLVYSDKRMVQTAAGDYSGNIEWASCTLCSAVRRSCCAPSEAVKSAIPYWL
LLTPQHLNVIKADFNPMNRRGTHNCRNRNSFKLSRVPLSTVLLDPTRSCTQPRGAFADGHVLELLVGYRF
VTAIFVLPHEKHFHLRVYNQLRASLQDLKTVVIAKTPGTGGSPQGSFADGQPAERRASNDQRPQEVPAEA
LAPAPVEVPAPAPAAASASGPAKTPAPAEASTSALVPEETPVEAPAPPAEAPAQYPSEHLIQATSEENQ
IPPHLPACPSLRHVASLRGSAIIELFHSSIAEVENEELRHLMWSSVVFYQTPGLEVTACVLLSTKAVYFV
LHDGLRRYFSEPLQDFWHQKNTDYNNSPFHISQCFVLKLSDLQSVNVGLFDQHFRLTGSTPMQVVTCLTR
DSYLT HCFLQHLMVVLSSLERTPSPEPVDKDFYSEFGNKTGKMMENYELIHSSRVKFTYPSSEEEIGDLTF
TVAQKMAEPEKAPALSILLYVQAFQVGMPPPGCCRGPLRPKTLTLLTSSEIFLLDEDCVHYPLPEFAKEPP
QRDRYRLDDGRRVRDLDRVLMGYQTYPQALTLVFDDVQGHDLMGSVTLDFHGEVPGGPARASQGREVQWQ
VFVPSAESREKLISLLARQWEALCGREL PVELTG

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

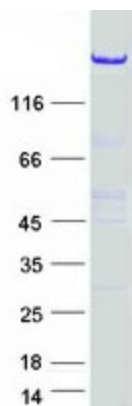
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining



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Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_009115
RefSeq Size:	5252
RefSeq ORF:	4512
Synonyms:	hIRAS; I-1; IR1; IRAS
Locus ID:	11188
UniProt ID:	Q9Y2I1
Cytogenetics:	3p21.1
Summary:	<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>
Protein Families:	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]).