

Product datasheet for **TP511470**

Nat10 (NM_153126) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse N-acetyltransferase 10 (Nat10), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR211470 representing NM_153126 Red =Cloning site Green =Tags(s)

MNRKKVDNRIRILIENGVAERQSRSLFVWVGDRGKDQVILHHMLSKATVKARPSVLWCYKKELGFSHRK
KRMRQLQKKIKSGTLNLKQDDPFELFVAATNIRYCYNETHKILGNTFGMCLVDQFEALTPNLLARTVET
VEGGGLWILLRTMNSLKQLYTMTMDVHSRYRTEAHQDVVGRFNERFILSLASCKKCLVIDDQLDILPIS
SHVASIEALPPQAPDENLSPAALLELELKEQLDTPVGVLDCCCKTLDQAKAVLKFIGEISEKTLRSTV
ALTAARGRGKSAALGLAIAGAVAFGYSNIFVTSPSPDNLHTLFEFVFKGFDALQYQEHLDYEIVQSLNPE
FNKAVIRVNVFREHRQTIQYIHPADAVKLGQAEVVIDEAAAIPPLVKSLGPLYVFMASITNGYEGTG
RSLSLKLIQQLRQQAQSQVSTTAENKTTTARLASARTLHEVSLQESIRYAPGDAVEKWLNDLLCLDCL
NITRIVSGCPLPEACELYVNRDTLFCYHKASEVFLQRLMALYVASHYKNSPNDLQMLSDAPAHHLFCLL
PPVPPTQNALPEVLAVVQVCLEGEISRQSIILNSLSRGKASGDLIPWTVSEQFQDPDFGGLSGGRVRIA
VHPDYQGMGYGSRALQLLQMYEGKFPCCLEEKVLETPQEIRTVSSEAVSLLEEVITPRKDLPLLLKLN
RPAERLDYLGVSYGLTPRLLKFWKRAGFVPLYRQTPNDLTGEHSCIMLKTLEDEAEQGAWLAAFWKD
FRRRFLALLSYQFSTFSPALSLNIIQNRNVAKSALPALGREHLEALFLPYDLKRLEMYSRNMVDYHLIMD
LIPASRLYFLNQLGDLSSAAQSALLLIGLQHKSVQLEKEIELPSGQLMGLFNRIIRKVKLFNDVQ
EKAIEEQMVAVKDVVMEPTMKTLSDDLDEAAKEFQEKHKKEVGKLDMDLSQYVIRGDDEEWNEVLSKAG
QNASIVSLKSDKKRLETKQEPKQSKLKKRDNNRKMMLKRRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	115.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_694766
Locus ID:	98956
UniProt ID:	Q8K224
RefSeq Size:	3856
Cytogenetics:	2 E2
RefSeq ORF:	3072
Synonyms:	AI429152
Summary:	<p>RNA cytidine acetyltransferase that catalyzes the formation of N(4)-acetylcytidine (ac4C) modification on mRNAs, 18S rRNA and tRNAs. Catalyzes ac4C modification of a broad range of mRNAs, enhancing mRNA stability and translation. mRNA ac4C modification is frequently present within wobble cytidine sites and promotes translation efficiency. Mediates the formation of ac4C at position 1842 in 18S rRNA (By similarity). May also catalyze the formation of ac4C at position 1337 in 18S rRNA (By similarity). Required for early nucleolar cleavages of precursor rRNA at sites A0, A1 and A2 during 18S rRNA synthesis (By similarity). Catalyzes the formation of ac4C in serine and leucine tRNAs (By similarity). Requires the tRNA-binding adapter protein THUMP1 for full tRNA acetyltransferase activity but not for 18S rRNA acetylation. In addition to RNA acetyltransferase activity, also able to acetylate lysine residues of proteins, such as histones, microtubules, p53/TP53 and MDM2, in vitro. The relevance of the protein lysine acetyltransferase activity is however unsure in vivo. Activates telomerase activity by stimulating the transcription of TERT, and may also regulate telomerase function by affecting the balance of telomerase subunit assembly, disassembly, and localization (By similarity).[UniProtKB/Swiss-Prot Function]</p>