

Recombinant Human MICU1 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. MICU1-279H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CBARA1 MS Standard C13 and N15-labeled recombinant protein (NP_006068) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes an essential regulator of mitochondrial Ca ²⁺ uptake under basal conditions. The encoded protein interacts with the mitochondrial calcium uniporter, a mitochondrial inner membrane Ca ²⁺ channel, and is essential in preventing mitochondrial Ca ²⁺ overload, which can cause excessive production of reactive oxygen species and cell stress. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Mar 2013]
Molecular Mass	54.4 kDa
AA Sequence	MFRLNSLSALAEAVGSRWYHGGSQPIQIRRLMMVAFLGASAVTASTGLLWKRAH AESPPCVDNLKSDIGDKGKNKDEGDVCNHEKKTADLAPHPEEKKKKRSRSGFRDRKV MEYENRIRAYSTPDKIFRYFATLKVISEPGAEVFMTPEDFVRSITPNEKQPEHLGLD QYIIKRFDGKKISQEREKFADEGSIFYTLGECGLISFSDYIFLTTVLSTPQRNFEIAFKM FDLNGDGEVDMEEFEQVQSIIRSQTSMMRHRDRPTTGNTLKSGLCALTTTYFFGA DLKGKLTIKNFLEFQRKLQHDVLKLEFERHDPVDGRITERQFGGMLLAYSGVQSKKL TAMQRQLKKHFKEGKGLTFQEVENFFTLKNINDVDTALSFYHMGASLDKVTMQQ

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	VARTVAKVELSDHVCDVVFALFDCDNGELSNKEFVSIMKQRLMRGLEKPKDMGFT RLMQAMWKCAQETAWDFALPKQTRTRPLEQKLISEEDLAANDILDYKDDDDKV
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 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	MICU1 mitochondrial calcium uptake 1 [Homo sapiens (human)]
Official Symbol	MICU1
Synonyms	MICU1; mitochondrial calcium uptake 1; calcium binding atopy related autoantigen 1, CBARA1; calcium uptake protein 1, mitochondrial; CALC; EFHA3; FLJ12684; ara CALC; atopy related autoantigen; atopy-related autoantigen CALC; calcium binding atopy-related autoantigen 1; calcium-binding atopy-related autoantigen 1; CBARA1; DKFZp564C246;
Gene ID	10367
mRNA Refseq	NM_006077
Protein Refseq	NP_006068

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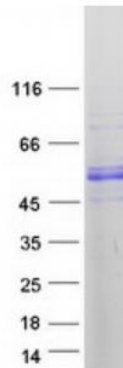
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MIM 605084

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SDS-PAGE



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