

Recombinant Full Length Human MICU1 Protein, GST-tagged

Cat. No. MICU1-3776HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human CBARA1 full-length ORF (AAH04190.1, 1 a.a. - 476 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
Protein Length	476 amino acids
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	80.8 kDa
AA Sequence	MFRLNSLSALAEAVGSRWYHGGSQPIQIRRRLLMMVAFLGASAVTASTGLLWKRAH AESPPCVDNLKSDIGDKGKNKDEGDVCNHEKKTADLAPHPEEKKKKRSRGRDRKRV MEYENRIRAYSTPDKIFRYFATLKVISEPGAEVFMTPEDFVRSITPNEKQPEHLGLD QYIIKRFDGKKISQEREKFADEGSIFYTLGECGLISFSDYIFLTTVLSTPQRNFEIAFKM FDLNGDGEVDMEEFEQVQSIIRSQTSMGMRHRDRPTTGNTLKSGLCSALTTYFFGA DLKGKLTIKNFLEFQRKLQHDVLKLEFERHDPVDGRITERQFGGMLLAYSGVQSKKL TAMQRQLKHKHFKGKGLTFQEVENFFTLKNINDVDTALSFYHMGASLDKVTMQQ

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VARTVAKVELSDHVCDVVFALFDCDGNGELSNKEFVSIMKQRLMRGLEKPKDMGFT
RLMQAMWKCAQETAWDFALPKQ

Applications
Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name MICU1 mitochondrial calcium uptake 1 [Homo sapiens (human)]

Official Symbol MICU1

Synonyms CBARA1; MICU1; mitochondrial calcium uptake 1; CALC; EFHA3; MPXPS; calcium uptake protein 1, mitochondrial; ara CALC; atopy-related autoantigen CALC; calcium-binding atopy-related autoantigen 1

Gene ID 10367

mRNA Refseq NM_001195518

Protein Refseq NP_001182447

MIM 605084

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UniProt ID

Q9BPX6

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