

MARCHF5 Protein, Mouse (Cell-Free, His, HiBiT)

Cat. No.:	HY-P702367
Synonyms:	E3 ubiquitin-protein ligase MARCHF5; Membrane-associated RING finger protein 5; Membrane-associated RING-CH protein V; MARCH-V; RING-type E3 ubiquitin transferase MARCHF5
Species:	Mouse
Source:	E. coli Cell-free
Accession:	Q3KNM2 (M1-A278)
Gene ID:	/
Molecular Weight:	35.6 kDa

PROPERTIES

AA Sequence	<pre> M P D Q A L Q Q M L D R S C W V C F A T D E D D R T A E W V R P C R C R G S T K W V H Q A C L Q R W V D E K Q R G N S T A R V A C P Q C N A E Y L I V F P K L G P V V Y V L D L A D R L I S K A C P F A A A G I M V G S I Y W T A V T Y G A V T V M Q V V G H K E G L D V M E R A D P L F L L I G L P T I P V M L I L G K M I R W E D Y V L R L W R K Y S N K L Q I L N S I F P G I G C P V P R I P A E A N P L A D H V S A T R I L C G A L V F P T I A T I V G K L M F S S V N S N L Q R T I L G G I A F V A I K G A F K V Y F K Q Q Q Y L R Q A H R K I L N Y P E Q E E A </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	MARCHF5 protein serves as a mitochondrial E3 ubiquitin-protein ligase, exerting significant influence over mitochondrial morphology by positively regulating mitochondrial fission. Beyond its role in shaping mitochondrial structure, MARCHF5 is implicated in the prevention of cell senescence, functioning as a key player in mitochondrial quality control. Its activity involves the ubiquitination of critical proteins involved in mitochondrial dynamics, namely FIS1, DNM1L, and MFN1.
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Through these regulatory actions, MARCHF5 emerges as a multifaceted contributor to the maintenance of mitochondrial integrity and cellular homeostasis.

Caution: Product has not been fully validated for medical applications. For research use only.

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