

Active Recombinant Human RHOT1 protein, His-tagged

Cat. No. RHOT1-261H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RHOT1(Ile186 - Thr591) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	186-591 a.a.
Description	Mitochondrial Rho GTPase 1 (also known as Miro1 or Rhot1) is a membrane associated GTPase with a predicted molecular weight of 71 kDa. Miro1 has been reported to directly associate with the KIF5 motor protein, allowing mitochondria to move along microtubules. A number of publications have identified Miro1 as an in vivo substrate for the E3 Ubiquitin ligase Parkin (encoded by the PARK2 gene), an essential component of the cellular machinery that participates in the removal of damaged mitochondria. This protein is useful as an in vitro substrate for activated recombinant Parkin enzyme.
Form	X mg/ml (X µM) in 50 mM HEPES, 200 mM NaCl, 2 mM TCEP
Bio-activity	Reaction Conditions will be optimized for each specific application. In a 50 µl reaction containing 1 µM activated Parkin E3 ligase, 1 µM His6-Miro1 is fully converted to Ubiquitinated forms in 60 minutes.
Molecular Mass	Predicted Molecular Mass: 50 kDa

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Purity	>90%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -70 centigrade as supplied. 3 months, -70 centigrade under sterile conditions after opening.

GENE INFORMATION

Gene Name	RHOT1 ras homolog family member T1 [Homo sapiens]
Official Symbol	RHOT1
Synonyms	RHOT1; ras homolog family member T1; ARHT1, ras homolog gene family, member T1; mitochondrial Rho GTPase 1; FLJ11040; MIRO 1; mitochondrial Rho (MIRO) GTPase 1; hMiro-1; mitochondrial Rho 1; ras homolog gene family, member T1; rac-GTP binding protein-like protein; rac-GTP-binding protein-like protein; ARHT1; MIRO1; MIRO-1; FLJ12633;
Gene ID	55288
mRNA Refseq	NM_001033566
Protein Refseq	NP_001028738
MIM	613888
UniProt ID	Q8IXI2

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