

Active Recombinant Human MRAS (Q71L) Protein, His-tagged

Cat. No. MRAS-703H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MRAS protein (NM_012219Q71L) was expressed in E. coli with His tag.
Species	Human
Source	E.coli
Description	Ras proteins are members of the superfamily of small GTP-binding proteins that function as molecular switches controlling a variety of signaling and transport pathways. The Ras family of GTP-binding proteins consists of the classical Ras (Ha-, K-, and N-), R-Ras, Rap1, Rap2, Ral, Rheb, Rin, Rit, TC21/R-Ras2, and M-Ras/R-Ras3 (M-Ras). Stimulation of Ba/F3-Fms cells with either IL-3 or CSF-1 resulted in efficient activation of both K-Ras 4B and M-Ras. Stimulation of fibroblasts with EGF also led to more efficient activation of K-Ras 4B than of H-Ras or N-Ras, and the activation of M-Ras was very strong. An S27N mutant of M-Ras, like the analogous H-Ras S17N mutant, was a dominant inhibitor of activation of the c-fos promoter by constitutively active Src Y527F, suggesting that M-Ras and p21 Ras shared guanine nucleotide exchange factors and are likely to be activated in parallel. M-Ras (Q71L) is a constitutive active mutant of M-Ras.
Form	25 mM HEPES pH 7.5, 50 mM NaCl, 5 mM MgCl ₂ , 1 μM GDP and 50% glycerol
Bio-activity	GTPγS binding: >750 mmol/mol.
Purity	> 95 % (SDS-PAGE)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Store at -20 centigrade.
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GENE INFORMATION

Gene Name	MRAS muscle RAS oncogene homolog [Homo sapiens]
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Official Symbol	MRAS
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Synonyms	M-RAS; RRAS3; R-RAS3
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Gene ID	22808
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mRNA Refseq	NM_001085049.1
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Protein Refseq	NP_001078518.1
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MIM	608435
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UniProt ID	O14807
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