Recombinant Mouse Rragd Protein, Myc/DDK-tagged

Cat. No. Rragd-5622M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length Ras-related GTP binding D (Rragd), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Guanine nucleotide-binding protein that plays a crucial role in the cellular response to amino acid availability through regulation of the mTORC1 signaling cascade. Forms heterodimeric Rag complexes with RRAGA or RRAGB and cycles between an inactive GTP-bound and an active GDP-bound form. In its active form participates in the relocalization of mTORC1 to the lysosomes and its subsequent activation by the GTPase RHEB. This is a crucial step in the activation of the TOR signaling cascade by amino acids.
Molecular Mass	45.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method

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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Rragd Ras-related GTP binding D [Mus musculus (house mouse)]
Official Symbol	Rragd
Synonyms	RRAGD; Ras-related GTP binding D; ras-related GTP-binding protein D; ragD; rag D; AI467523; D4Ertd174e; 5730543C08Rik; C030003H22Rik
Gene ID	52187
mRNA Refseq	NM_027491
Protein Refseq	NP_081767
UniProt ID	Q7TT45

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