Recombinant Mouse Riox2 Protein, Myc/DDK-tagged

Cat. No. Riox2-5521M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length ribosomal oxygenase 2 (Riox2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Oxygenase that can act as both a histone lysine demethylase and a ribosomal histidine hydroxylase. Is involved in the demethylation of trimethylated 'Lys-9' on histone H3 (H3K9me3), leading to an increase in ribosomal RNA expression. Also catalyzes the hydroxylation of 60S ribosomal protein L27a on 'His-39'. May play an important role in cell growth and survival. May be involved in ribosome biogenesis, most likely during the assembly process of pre-ribosomal particles.
Molecular Mass	53.6 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	Riox2 ribosomal oxygenase 2 [Mus musculus (house mouse)]
Official Symbol	Riox2
Synonyms	Riox2; ribosomal oxygenase 2; M; Mina; AI449204; 1810047J07Rik; 2410057H13Rik; 3830408E23Rik; ribosomal oxygenase 2; MYC-induced nuclear antigen; bifunctional lysine-specific demethylase and histidyl-hydroxylase MINA; histone lysine demethylase MINA; myc induced nuclear antigen; EC 1.14.11.-
Gene ID	67014
mRNA Refseq	NM_025910
Protein Refseq	NP_080186
UniProt ID	Q8CD15

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