Recombinant Mouse Dupd1 Protein, Myc/DDK-tagged

Cat. No. Dupd1-2677M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length dual specificity phosphatase and pro isomerase domain containing 1 (Dupd1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Dual specificity phosphatase able to dephosphorylate phosphotyrosine, phosphoserine and phosphothreonine residues within the same substrate, with a preference for phosphotyrosine as a substrate. Involved in the modulation of intracellular signaling cascades. In skeletal muscle regulates systemic glucose homeostasis by activating, AMPK, an energy sensor protein kinase. Affects MAP kinase signaling though modulation of the MAPK1/2 cascade in skeletal muscle promoting muscle cell differentiation, development and atrophy.
Molecular Mass	24.6 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.

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Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Dupd1 dual specificity phosphatase and pro isomerase domain containing 1 [Mus musculus (house mouse)]
Official Symbol	Dupd1
Synonyms	DUPD1; dual specificity phosphatase and pro isomerase domain containing 1; dual specificity phosphatase DUPD1; EG435391
Gene ID	435391
mRNA Refseq	NM_001013826
Protein Refseq	NP_001013848
UniProt ID	Q8BK84

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