

Recombinant Mouse Disc1 Protein, Myc/DDK-tagged

Cat. No. Disc1-2571M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length disrupted in schizophrenia 1 (Disc1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Involved in the regulation of multiple aspects of embryonic and adult neurogenesis. Required for neural progenitor proliferation in the ventricular/subventricular zone during embryonic brain development and in the adult dentate gyrus of the hippocampus. Participates in the Wnt-mediated neural progenitor proliferation as a positive regulator by modulating GSK3B activity and CTNNB1 abundance. Plays a role as a modulator of the AKT-mTOR signaling pathway controlling the tempo of the process of newborn neurons integration during adult neurogenesis, including neuron positioning, dendritic development and synapse formation. Inhibits the activation of AKT-mTOR signaling upon interaction with CCDC88A. Regulates the migration of early-born granule cell precursors toward the dentate gyrus during the hippocampal development. Inhibits ATF4 transcription factor activity in neurons by disrupting ATF4 dimerization and DNA-binding. Plays a role, together with PCNT, in the microtubule network formation.
Molecular Mass	92.5 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

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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

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

GENE INFORMATION

Gene Name Disc1 disrupted in schizophrenia 1 [Mus musculus (house mouse)]

Official Symbol Disc1

Synonyms DISC1; disrupted in schizophrenia 1; disrupted in schizophrenia 1 homolog

Gene ID 244667

mRNA Refseq NM_174854

Protein Refseq NP_777279

UniProt ID Q811T9

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