

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	<p>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.</p>
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

 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

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](#)

 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