

Recombinant Mouse Chac1 Protein, Myc/DDK-tagged

Cat. No. Chac1-2134M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length ChaC, cation transport regulator 1 (Chac1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Catalyzes the cleavage of glutathione into 5-oxo-L-proline and a Cys-Gly dipeptide. Acts specifically on glutathione, but not on other gamma-glutamyl peptides. Glutathione depletion is an important factor for apoptosis initiation and execution. Acts as a pro-apoptotic component of the unfolded protein response pathway by mediating the pro-apoptotic effects of the ATF4-ATF3-DDIT3/CHOP cascade. Negative regulator of Notch signaling pathway involved in embryonic neurogenesis: acts by inhibiting Notch cleavage by furin, maintaining Notch in an immature inactive form, thereby promoting neurogenesis in embryos.
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 Chac1 ChaC, cation transport regulator 1 [Mus musculus (house mouse)]

Official Symbol Chac1

Synonyms Chac1; ChaC, cation transport regulator 1; Botc; 1810008K03Rik; glutathione-specific gamma-glutamylcyclotransferase 1; ChaC, cation transport regulator-like 1; blocks Notch protein; botch; cation transport regulator-like protein 1; gamma-GCG 1; EC 4.3.2.7

Gene ID 69065

mRNA Refseq NM_026929

Protein Refseq NP_081205

UniProt ID Q8R3J5

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