

## Recombinant Mouse Chac1 Protein, Myc/DDK-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length ChaC, cation transport regulator 1 (Chac1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	<p>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.</p>
<b>Molecular Mass</b>	24.6 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	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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