

Recombinant Human CHM Protein (1-653 aa), His-tagged

Cat. No. CHM-1919H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CHM Protein (1-653 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Neuroscience. Protein Description: Full Length.
Species	Human
Source	E.coli
ProteinLength	1-653 aa
Description	Substrate-binding subunit of the Rab geranylgeranyltransferase (GGTase) complex. Binds unprenylated Rab proteins and presents the substrate peptide to the catalytic component B composed of RABGGTA and RABGGTB, and remains bound to it after the geranylgeranyl transfer reaction. The component A is thought to be regenerated by transferring its prenylated Rab back to the donor membrane. Besides, a pre-formed complex consisting of CHM and the Rab GGTase dimer (RGGT or component B) can bind to and prenylate Rab proteins; this alternative pathway is proposed to be the predominant pathway for Rab protein geranylgeranylation.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	77.5 kDa
AA Sequence	MADTLPSEFDVIVIGTGLPESIIAAACSRSGRRVLHVDSRSYYGGNWSFSFSGLLS WLKEYQENS DIVSDSPVWQDQILENEEAIALSRKDKTIQHVEVFCYASQDLHEDVEE

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AGALQKNHALVTSANSTEAAADSAFLPTEDESLSTMSCMLTEQTPSSDPENALEVN
 GAEVTGEKENHCDDKTCVPSTSAEDMSENVPIAEDTTEQPKKNRITYSQIIEGRRF
 NIDLVSLLYSRGLLIDLLIKSNVSRYAIEFKNITRILAFREGRVEQVPCSRADVFNISKQ
 LTMVEKRMLMKFLTFCMEYEKYPDEYKGYEEITFYEYLKTQKLTPNLQYIVMHSIAMT
 SETASSTIDGLKATKNFLHCLGRYGNTPLFLPLYGQGELPQCFCRMCVFGGIYCLR
 HSVQCLVVDKESRKCKAIDQFGQRIIEHFLVEDSYFPENMCSRQYRQISRVLIT
 DRSVLKTDSDQQISILTVPAEETGTFVAVRVIELCSSTMTCKMGTYLVHLTCTSSKTAR
 EDLESVVQKLFVPYTEMEIENEQVEKPRILWALYFNMRDSSDISRSCYNLPSNVYV
 CSGPDCGLGNDNAVKQAETLFQEICPNEDFCPPPPNPEDIILDGDSLQPEASESSAI
 PEANSETFKESTNLGNLEESSE

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name CHM choroideremia (Rab escort protein 1) [Homo sapiens]

Official Symbol CHM

Synonyms CHM; DXS540, TCD; REP 1; TCD; GGTA; REP-1; DXS540; HSD-32; FLJ38564; MGC102710;

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Gene ID	1121
mRNA Refseq	NM_000390
Protein Refseq	NP_000381
MIM	300390
UniProt ID	P24386

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