

Recombinant Mouse CLCA1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51879

Size: 10ug, 100ug

Protein Name: Calcium-activated chloride channel regulator 1 (EC 3.4.-.-) (Calcium-activated chloride channel family member 3) (mCLCA3) (Protein gob-5)

Synonym: Clca1, Clca3, Gob5

UniProt ID: Q9D7Z6

UniProt Link: www.uniprot.org/uniprotkb/Q9D7Z6/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 913 AA

Molecular Weight: 100 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MESLKSPVFLILHLLEGVLSESLIQLNNGYEGIVIAIDHDVPEDEALIQHIKDMVTQASPYLFEATGK
RFYFKNVAILIPESWKAKPEYTRPKLETFTKNADVLVSTTSPLGNDEPYTEHIGACGEKGIRIHLTPDFL
AGKKLTQYGPQDRTFVHEWAHFRWGVFNEYNNDEKFYLSKGKPAVRCSAAITGKNQVRRRCQGG
SCITNGKCVIDRVTGLYKDNCFVFPDPHQNEKASIMFNQINNSVVEFCTEKNHNQEAPNDQNQRCL
RSTWEVIQESDFKQTTPTMTAQPPPTFSLLQIGQRIVCLVLDKSGSMLNDDRLNRMNQASRLFLLQ
TVEQGSWVGMVTFDSAAYVQSELKQLNSGADRDLLIKHLPTVSAGGTSICSGLRTAFTVIKKKYPTD
GSEIVLLTDGEDNTISSCFDLVKQSGAIIHTVALGPAAAKELEQLSKMTGGLQTYSSDQVQNNGLVDA
FAALSSGNAAIAQHSIQLESRGVNLQNNQWMNGSVIVDSSVGKDTLFLITWTTTHPPTIFIWDPGVEQ
NGFILDTTTTKVAYLQVPGTAKVGFWKYSIQASSQTLTLTVTSRAASATLPPITVTPVVKNTGKFPSPV
TVYASIRQGASPILRASVTALIESVNGKTVTLELLDNGAGADATKNDGVYSRFFTAFDANGRYSVKIW
ALGGVTSDRQRAAPPKNRAMYIDGWIEDGEVRMNP RPETS YVQDKQLCF SRTSSGGSFVATNVP
AAAPIPDLFPQCITDLKASIQQGNLVNLWTAPGDDYDHGRASNYIIRMSTSIVDLRDHFNTSLQVNT
TGLIPKEASSEEIFEFEFGNGTDFGNGTDIFIAQAVDKSNLKSEISNIARVSVFIPAQEPIPEDSTPPCP
DISINSTIPGIHVLKIMWKWLGEMQVTLGLH

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Calcium-activated chloride channel regulator 1 (EC 3.4.-.-) (Calcium-activated chloride channel family member 3) (mCLCA3) (Protein gob-5) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: May be involved in mediating calcium-activated chloride conductance. May play critical roles in goblet cell metaplasia, mucus hypersecretion, cystic fibrosis and AHR. May be involved in the regulation of mucus production and/or secretion by goblet cells. Involved in the regulation of tissue inflammation in the innate immune response. May play a role as a tumor suppressor. Induces MUC5AC.

Subcellular Localization: Secreted, extracellular space . Note=The 75 kDa N-terminal and a 35 kDa C-terminal products are fully secreted into extracellular environment as a soluble complex of two glycoproteins.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.