

Recombinant Mouse CAHM6 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51758

Size: 10ug, 100ug

Protein Name: Calcium homeostasis modulator protein 6 (IFN regulatory factor 3-dependent NK-activating molecule) (INAM) (Protein FAM26F)

Synonym: Calhm6, Fam26f

UniProt ID: Q8C9E8

UniProt Link: www.uniprot.org/uniprotkb/Q8C9E8/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 313 AA

Molecular Weight: 35 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MEKFKAVLDLQRKHRNALGYSLVTLTLAGGEKIFSSVVFQCPCTATWNLPHYGLVFLVLPALALFLLGY
ALSARTWRLLTGCCSRSAFSSGLRSAFVCAQLSMTAAFAPLTWVAVALLEGSFYQCAVSGSARLA
PYLCKGRDPNCNATLPQAPCNKQKVEMQEILSQLKAQSQVFGWILIAAVIILLLVKSVTRCFSPVSYL
QLKFWEIYWEKEKQILQNQAAENATQLAEENVRCFFECSPKECNTPSSKDWQEISALYTFNPKNQ
FYSMLHKYVSREEMSGSVRSVEGDAVIPALGFVDDMSMTNTHEL

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 homeostasis modulator protein 6 (IFN regulatory factor 3-dependent NK-activating molecule) (INAM) (Protein FAM26F) 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: Pore-forming subunit of an ATP-permeable channel (PubMed:21059856, PubMed:36861806). In response to pathogen-derived and proinflammatory stimuli, relocates from intracellular compartments to NK-dendritic cell and NK-macrophage immune synapses where it mediates ATP efflux and NK cell activation involved in antimicrobial and antitumor responses (PubMed:21059856, PubMed:36861806). May assemble to form gap junction channel-like structures with gating and ion conductance likely regulated by membrane lipids and voltage rather than by extracellular calcium levels (By similarity).

Subcellular Localization: Cell membrane ; Multi-pass membrane protein . Note=Recruited at immune synapses in response to pathogen-derived and proinflammatory stimuli.

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.