

Datasheet for ABIN7556456
CIB2 Protein (AA 1-187) (His tag)



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Overview

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| Quantity: | 1 mg |
| Target: | CIB2 |
| Protein Characteristics: | AA 1-187 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This CIB2 protein is labelled with His tag. |

Product Details

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| Purpose: | Custom-made recombinant Cib2 Protein expressed in mammalian cells. |
| Sequence: | <p>MGNKQTIFTE EQLDNYQDCT FFNKKDILKL HARFYELAPN LVPMDYRKSP IVHVPMSLII QMPRELRENPF KERIVEAFSE DGEGLNLTND FVDMFSLVCE SAPRELKANY AFKIYDFNTD NFICKEDLEM TLARLTKSEL EEDEVVLVCD KVIEEADLDG DGKLGFDLFE DMIKAPDFL STFHIRI</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p> |
| Specificity: | If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer. |
| Characteristics: | <p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and |

Product Details

transmembrane proteins.

- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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| Purity: | > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC) |
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| Grade: | custom-made |
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Target Details

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| Target: | CIB2 |
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| Alternative Name: | Cib2 (CIB2 Products) |
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| Background: | Calcium and integrin-binding family member 2 (Kinase-interacting protein 2) (KIP 2),FUNCTION: Calcium- and integrin-binding protein that plays a role in intracellular calcium homeostasis (PubMed:23023331, PubMed:29084757, PubMed:29255404, PubMed:28663585, PubMed:34089643). Acts as an auxiliary subunit of the sensory mechanoelectrical transduction (MET) channel in hair cells (PubMed:34089643). Essential for mechanoelectrical transduction (MET) currents in auditory hair cells and thereby required for hearing (PubMed:29084757, PubMed:29255404, PubMed:28663585). Regulates the function of hair cell mechanotransduction by controlling the distribution of transmembrane channel-like proteins TMC1 and TMC2, and by regulating the function of the MET channels in hair cells (PubMed:34089643). Required for the maintenance of auditory hair cell stereocilia bundle morphology and function and for hair-cell survival in the cochlea (PubMed:29084757, PubMed:29255404, PubMed:28663585). Critical for proper photoreceptor cell maintenance and function (PubMed:23023331). Plays a role in intracellular calcium homeostasis by decreasing ATP-induced calcium release (PubMed:23023331). Seems to be dispensable for vestibular functions (PubMed:29084757). {ECO:0000269 PubMed:23023331, ECO:0000269 PubMed:28663585, ECO:0000269 PubMed:29084757, ECO:0000269 PubMed:29255404, ECO:0000269 PubMed:34089643}. |
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Target Details

Molecular Weight: 21.7 kDa

UniProt: [Q9Z309](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months