

Datasheet for ABIN7546913

Cytochrome b561 Family, Member A3 (CYB561A3) (AA 1-242) protein (His tag)



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Overview

Quantity:	1 mg
Target:	Cytochrome b561 Family, Member A3 (CYB561A3)
Protein Characteristics:	AA 1-242
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat CYB561A3 Protein expressed in mammalien cells.
Sequence:	<p>MVSGRFYLSC LLLGSLGSMC ILFTIYWMQY WRGGFAWNGS IYMFNWHPVL MVAGMVFYFG GASLVYRLPQ SWVGPKL PWK LLHAALHLMA FVLTVVGLVA VFTFHNHGRT ANLYSLHSWL GITTVFLFAC QWFLGFAVFL LPWASMWLRS LLKPIHVFFG AAILSLSIAS VISGINEKLF FSLKNTTRPY HSLPSEAVFA NSTGMLV VAF GLLVLYILLA SSWKRPEPGI LTDRQPLLHD GE</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>
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 mammalien 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.

Purity: > 90 % as determined by Bis-Tris Page, Western Blot

Grade: custom-made

Target Details

Target: Cytochrome b561 Family, Member A3 (CYB561A3)

Alternative Name: CYB561A3 ([CYB561A3 Products](#))

Background: Lysosomal membrane ascorbate-dependent ferrireductase CYB561A3 (EC 7.2.1.3) (Cytochrome b ascorbate-dependent protein 3) (Cytochrome b561 family member A3) (Lysosomal cytochrome b) (LCytb),FUNCTION: Transmembrane reductase that uses ascorbate as an electron donor in the cytoplasm and transfers electrons across membranes to reduce iron cations Fe(3+) into Fe(2+) in the lumen of the late endosome and lysosome. Reduced iron can then be extruded from the late endosome and lysosome to the cytoplasm by divalent metal-specific transporters. It is therefore most probably involved in endosomal and lysosomal cellular iron homeostasis. {ECO:0000250|UniProtKB:Q6P1H1}.

Molecular Weight: 27.2 kDa

UniProt: [Q8NBI2](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Application Details

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