

Datasheet for ABIN7562066
FLVCR Protein (AA 1-560) (His tag)



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Overview

Quantity:	1 mg
Target:	FLVCR (FLVCR1)
Protein Characteristics:	AA 1-560
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FLVCR protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Flvcr1 Protein expressed in mammalian cells.
Sequence:	MARPDDEVGP AVAPGHPLGK GYLPVPKGAP DGEARLVPQN GPEALNGGPG LGPLIAGAQQ GPQALIAAEE ETQARLLPAG DGEDVPCPAC PPRALTSPRR FVLLIFSLY SLVNAFQWIQ YSSISNVFED FYEVSPLHIN WLSMVYMVAY VPLIFPATWL LDTRGLRLTA LLGSGLNCLG AWVKCGSVQR HLFWVTMLGQ ILCVAQVFI LGLPSPVASV WFGPKEVSTA CATAVLGNQL GTAVGFLLPP VLVPALGTQN STGLLAHTQN NTDLLAHNIN TMFYGTAFIS TFLFFLTIIA FKEKPLPPS QAQAVLRDSP PEEYSYKSSI WNLCRNIPFV LLLVSYGIMT GAFYSISTLL NQIILTYVVG EEVNAGRIGL TLVAGMVGSI ILCGLWLDYT KTYKQTTLIV YVLSFIGMLI FTFTLNLYGI IVVFFTGIL GFFMTGYLPL GFEFAVEITY PESEGMSSGL LNTAAQILGI FFTLAQGKIT TDYNSPEAGN IFLCAWMFVG IILTALIKSD LRRHNINTGL TNIDVKAVPV DSRVDPKPKV MVSISQESSL 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.

Product Details

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: **Key Benefits:**

- 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 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: FLVCR (FLVCR1)

Alternative Name: Flvcr1 ([FLVCR1 Products](#))

Background: Heme transporter FLVCR1 (Feline leukemia virus subgroup C receptor-related protein 1) (Feline leukemia virus subgroup C receptor) (Major facilitator superfamily domain containing 7B) (Mfsd7b),FUNCTION: [Isoform 1]: Heme b transporter that mediates heme efflux from the cytoplasm to the extracellular compartment. Heme export depends on the presence of HPX and is required to maintain intracellular free heme balance, protecting cells from heme toxicity. Heme export provides protection from heme or ferrous iron toxicities in liver, brain, sensory neurons and during erythropoiesis, a process in which heme synthesis intensifies. Possibly export coproporphyrin and protoporphyrin IX, which are both intermediate products in the heme biosynthetic pathway. Does not export bilirubin. The molecular mechanism of heme transport, whether electrogenic, electroneutral or coupled to other ions, remains to be elucidated.
{ECO:0000250|UniProtKB:Q9Y5Y0, ECO:0000269|PubMed:18258918,

Target Details

ECO:0000269|PubMed:23187127}., FUNCTION: [Isoform 2]: Heme transporter that promotes heme efflux from the mitochondrion to the cytoplasm. Essential for erythroid differentiation. {ECO:0000269|PubMed:23187127}.

Molecular Weight: 60.5 kDa

UniProt: [B2RXV4](#)

Pathways: [Transition Metal Ion Homeostasis](#)

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