

Datasheet for ABIN3092558

FERMT1 Protein (AA 1-677) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	FERMT1
Protein Characteristics:	AA 1-677
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FERMT1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MLSSTDFTFA SWELVVRVDH PNEEQQKDVLT LRVSGDLHVG GVMLKLVEQI NISQDWSDFAL</p> <p>LWWEQKHCWL LKTHWTLDKY GVQADAKLLF TPQHKMLRLR LPNLKMOVRLR VSFSAVVFKA</p> <p>VSDICKILNI RRSEELSLLK PSGDYFKKKK KDKNNKEPI IEDILNLESS PTASGSSVSP</p> <p>GLYSKTMTPY YDPINGTPAS STMTWFSDSP LTEQNCSILA FSQPPQSPEA LADMYQPRSL</p> <p>VDKAKLNAGW LDSSRSLMEQ GIQEDEQLLL RFKYYSFFDL NPKYDAVRIN QLYEQARWAI</p> <p>LLEEIDCTEE EMLIFAALQY HISKLSLSAE TQDFAGESEV DEIEAALSNL EVTLEGGKAD</p> <p>SLLEDITDIP KLADNLKLFR PKKLLPKAFK QYWFIFKDTI IAYFKNKELE QGEPLKLNLL</p> <p>RGCEVVPDVN VAGRKFGIKL LIPVADGMNE MYLRCDHENQ YAQWMAACML ASKGKTMADS</p> <p>SYQPEVLNLL SFLRMKNRNS ASQVASSLEN MDMNPECFVS PRCAKRHKSK QLAARILEAH</p> <p>QNVAQMPLVE AKLRFIAWQ SLPEFGLTYY LVRFKGSKKD DILGVSYNRL IKIDAATGIP</p> <p>VTTWRFTNIK QWNVNWETRQ VVIEFDQNVF TAFTCLSADC KIVHEYIGGY IFLSTRSKDQ</p>

NETLDEDLFH KLTGGQD

Sequence without tag. The proposed Strep-Tag is based on experience s 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.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Product Details

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

Target Details

Target: FERMT1

Alternative Name: FERMT1 ([FERMT1 Products](#))

Background: Fermitin family homolog 1 (Kindlerin) (Kindlin syndrome protein) (Kindlin-1) (Unc-112-related protein 1),FUNCTION: Involved in cell adhesion. Contributes to integrin activation. When coexpressed with talin, potentiates activation of ITGA2B. Required for normal keratinocyte proliferation. Required for normal polarization of basal keratinocytes in skin, and for normal cell shape. Required for normal adhesion of keratinocytes to fibronectin and laminin, and for normal keratinocyte migration to wound sites. May mediate TGF-beta 1 signaling in tumor progression. {ECO:0000269|PubMed:14634021, ECO:0000269|PubMed:17012746, ECO:0000269|PubMed:19804783}.

Molecular Weight: 77.4 kDa

UniProt: [Q9BQL6](#)

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.

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Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months