

Datasheet for ABIN3120984

## FGF13 Protein (AA 1-245) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	FGF13
Protein Characteristics:	AA 1-245
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FGF13 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

### Product Details

Brand:	AliCE®
Sequence:	<p>MAAAIASSLI RQKRQARERE KSNACKCVSS PSKGKTSCDK NKLNVFSRVK LFGSKKRRRR  RPEPQLKGIV TKLYSRQGYH LQLQADGTID GTKDEDSTYT LFNLPVGLR VVAIQGVQTK  LYLAMNSEGY LYTSEHFTPE CKFKESVFEN YYVTYSSMIY RQQQSGRGWY LGLNKEGEIM  KGNHVKKNKP AAHFLPKPLK VAMYKEPSLH DLTEFSRSGS GTPTKSRSVS GVLNKGKSMS  HNEST</p> <p><b>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.</b></p>

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> </ul>
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## Product Details

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

## Target Details

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Target:	FGF13
Alternative Name:	Fgf13 ( <a href="#">FGF13 Products</a> )

## Target Details

Background:	<p>Fibroblast growth factor 13 (FGF-13) (Fibroblast growth factor homologous factor 2) (FHF-2),FUNCTION: Microtubule-binding protein which directly binds tubulin and is involved in both polymerization and stabilization of microtubules (PubMed:22726441). Through its action on microtubules, may participate to the refinement of axons by negatively regulating axonal and leading processes branching (PubMed:22726441). Plays a crucial role in neuron polarization and migration in the cerebral cortex and the hippocampus (PubMed:22726441). Regulates voltage-gated sodium channel transport and function (PubMed:21817159). May also play a role in MAPK signaling (PubMed:11378392, PubMed:12244047). Required for the development of axonal initial segment-targeting inhibitory GABAergic synapses made by chandelier neurons (PubMed:30679375). {ECO:0000269 PubMed:11378392, ECO:0000269 PubMed:12244047, ECO:0000269 PubMed:21817159, ECO:0000269 PubMed:22726441, ECO:0000269 PubMed:30679375}., FUNCTION: [Isoform 1]: Seems not to be involved in neuroblast polarization and migration but regulates axon branching. {ECO:0000269 PubMed:22726441}.</p>
Molecular Weight:	27.6 kDa
UniProt:	<a href="#">P70377</a>
Pathways:	<a href="#">Regulation of Cell Size</a>

## Application Details

Application Notes:	<p>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.</p>
Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
Restrictions:	For Research Use only

## Handling

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