

Datasheet for ABIN3115360

## KCNT1 Protein (AA 1-1230) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	KCNT1
Protein Characteristics:	AA 1-1230
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNT1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AlIcE®
Sequence:	<p>MARAKLPRSP SEGKAGPGGA PAGAAAPPEP HGLSPLLPAR GGGSVGSDVG QRLPVEDFSL</p> <p>DSSLSQVQVE FYVNENTFKE RLKLFNIKQ RSSLRIRLFN FSLKLLTCLL YIVRVLLDDP</p> <p>ALGIGCWGCP KQNYSFNDSS SEINWAPILW VERKMTLWAI QVIVAIISFL ETMLLIYLSY</p> <p>KGNIWEQIFR VSFVLEMINT LPFIITIFWP PLRNLFIPVF LNCWLAKHAL ENMINDFHRA</p> <p>ILRTQSAMFN QVLILFCTLL CLVFTGTCGI QHLERAGENL SLLTSFYFCI VTFSTVGYGD</p> <p>VTPKIWPSQL LVVIMICVAL VVLPLQFEEL VYLWMERQKS GGNYSRHHRAQ TEKHVVLCVS</p> <p>SLKIDLLMDF LNEFYAHPRL QDYYVVILCP TEMDVQVRRV LQIPLWSQRV IYLQGSALKD</p> <p>QDLMRAKMDN GEACFILSSR NEVDRTAADH QTILRAWAVK DFAPNCPLYV QILKPENKFH</p> <p>VKFADHVVCE EECKYAMLAL NCICPATSTL ITLLVHTSRG QEGQESPEQW QRMYGRCSGN</p> <p>EVYHIRMGDS KFFREYEGKS FTYAAFHAHK KYGVCLIGLK REDNKSILLN PGPRHILAAS</p> <p>DTCFYINITK EENSAFIFKQ EEKRKKRAFS GQGLHEGPAR LPVHSIIASM GTVAMDLQGT</p>

EHRTQSGGG GGGSKLALPT ENGSGSRRPS IAPVLELADS SALLPCDLLS DQSEDEVTPS  
DDEGLSVVEY VKGYPPNSPY IGSSPTLCHL LPVKAPFCCL RLDKGCKHNS YEDAKAYGFK  
NKLIIVSAET AGNGLYNFIV PLRAYYRSRK ELNPIVLLLD NKPDHHFLEA ICCFPMVYYM  
EGSVDNLDL LQCGIYADN LVVVDKESTM SAEEDYMADA KTIVNVQTMF RLFPSLSITT  
ELTHPSNMRF MQFRAKDSYS LALSKLEKRE RENGSNLAFM FRLPFAAGRV FSISMLDTLL  
YQSFVKDYMI TITRLLLGLD TTPGSGYLCA MKITEGDLWI RTYGRLFQKL CSSSAEPIG  
IYRTESHVFS TSESQISVNV EDCEDTREVK GPWGSRAGTG GSSQGRHTGG GDPAEHPLLR  
RKSLQWARRL SRKAPKQAGR AAAAEWISQQ RLSLYRRSER QELSELVKNR MKHLGLPTTG  
YEDVANLTAS DVMNRVNLGY LQDEMNDHQN TLSYVLINPP PDTRLEPSDI VYLIRSDPLA  
HVAASSQSRK SSCSHKLSSC NPETRDETQL

**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.**

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### 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!

## Product Details

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

Target:	KCNT1
Alternative Name:	KCNT1 ( <a href="#">KCNT1 Products</a> )
Background:	Potassium channel subfamily T member 1 (KCa4.1),FUNCTION: Outwardly rectifying potassium channel subunit that may coassemble with other Slo-type channel subunits. Activated by high intracellular sodium or chloride levels. Activated upon stimulation of G-protein coupled receptors, such as CHRM1 and GRIA1. May be regulated by calcium in the absence of sodium ions (in vitro) (By similarity). {ECO:0000250}.
Molecular Weight:	138.3 kDa
UniProt:	<a href="#">Q5JUK3</a>

## 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.
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</p>

Application Details

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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