

Datasheet for ABIN3134784

Serotonin Receptor 2B Protein (HTR2B) (AA 1-479) (Strep Tag)



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Quantity:	250 μg
Target:	Serotonin Receptor 2B (HTR2B)
Protein Characteristics:	AA 1-479
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Serotonin Receptor 2B protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details		
Brand:	AliCE®	
Sequence:	MASSYKMSEQ STTSEHILQK TCDHLILTNR SGLETDSVAE EMKQTVEGQG HTVHWAALLI	
	LAVIIPTIGG NILVILAVAL EKRLQYATNY FLMSLAIADL LVGLFVMPIA LLTIMFEAIW	
	PLPLALCPAW LFLDVLFSTA SIMHLCAISL DRYIAIKKPI QANQCNSRAT AFIKITVVWL ISIGIAIPVP	
	IKGIETDVIN PHNVTCELTK DRFGSFMVFG SLAAFFAPLT IMVVTYFLTI HTLQKKAYLV	
	KNKPPQRLTR WTVPTVFLRE DSSFSSPEKV AMLDGSHRDK ILPNSSDETL MRRMSSVGKR	
	SAQTISNEQR ASKALGVVFF LFLLMWCPFF ITNLTLALCD SCNQTTLKTL LEIFVWIGYV	
	SSGVNPLIYT LFNKTFREAF GRYITCNYRA TKSVKALRKF SSTLCFGNSM VENSKFFTKH	
	GIRNGINPAM YQSPMRLRSS TIQSSSIILL DTLLTENDGD KAEEQVSYI	
	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 posttranslational 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

Target:	Serotonin Receptor 2B (HTR2B)		
Alternative Name:	Htr2b (HTR2B Products)		
Background:	5-hydroxytryptamine receptor 2B (5-HT-2B) (5-HT2B) (5-HT-2F) (NP75 protein) (Serotonin		
	receptor 2B),FUNCTION: G-protein coupled receptor for 5-hydroxytryptamine (serotonin)		
	(PubMed:1426253). Also functions as a receptor for various ergot alkaloid derivatives and		
	psychoactive substances (PubMed:1426253, PubMed:16940156). Ligand binding causes a		
	conformation change that triggers signaling via guanine nucleotide-binding proteins (G		
	proteins) and modulates the activity of downstream effectors. Beta-arrestin family members		
	inhibit signaling via G proteins and mediate activation of alternative signaling pathways.		
	Signaling activates a phosphatidylinositol-calcium second messenger system that modulates		
	the activity of phosphatidylinositol 3-kinase and downstream signaling cascades and promotes		
	the release of Ca(2+) ions from intracellular stores (By similarity). Plays a role in the regulation		
	of dopamine and 5-hydroxytryptamine release, 5-hydroxytryptamine uptake and in the		
	regulation of extracellular dopamine and 5-hydroxytryptamine levels, and thereby affects neura		
	activity (PubMed:16940156, PubMed:18337424). May play a role in the perception of pain		
	(PubMed:21273425). Plays a role in the regulation of behavior, including impulsive behavior		
	(PubMed:21179162). Required for normal proliferation of embryonic cardiac myocytes and		
	normal heart development (PubMed:10944220, PubMed:11413089). Protects cardiomyocytes		
	against apoptosis (PubMed:12738797). Plays a role in the adaptation of pulmonary arteries to		
	chronic hypoxia (PubMed:12244304). Plays a role in vasoconstriction (PubMed:12244304,		
	PubMed:23346101). Required for normal osteoblast function and proliferation, and for		
	maintaining normal bone density (PubMed:17846081). Required for normal proliferation of the		
	interstitial cells of Cajal in the intestine (PubMed:19941613). {ECO:0000250 UniProtKB:P41595		
	ECO:0000269 PubMed:10944220, ECO:0000269 PubMed:11413089,		
	ECO:0000269 PubMed:12244304, ECO:0000269 PubMed:12738797,		
	ECO:0000269 PubMed:1426253, ECO:0000269 PubMed:16940156,		
	ECO:0000269 PubMed:17846081, ECO:0000269 PubMed:18337424,		
	ECO:0000269 PubMed:19941613, ECO:0000269 PubMed:21179162,		
	ECO:0000269 PubMed:21273425, ECO:0000269 PubMed:23346101}.		
Molecular Weight:	53.6 kDa		
UniProt:	Q02152		
Pathways:	JAK-STAT Signaling, Inositol Metabolic Process, Regulation of G-Protein Coupled Receptor		

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Protein Signaling, Regulation of Carbohydrate Metabolic Process

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:	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!
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