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HTR2C Protein (AA 33-458) (rho-1D4 tag)



Image



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Overview

Quantity:	1 mg
Target:	HTR2C
Protein Characteristics:	AA 33-458
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HTR2C protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

IVTDIFNTSD GGRFKFPDGV QNWPALSIVI IIIMTIGGNI LVIMAVSMEK KLHNATNYFL

MSLAIADMLV GLLVMPLSLL AILYDYVWPL PRYLCPVWIS LDVLFSTASI MHLCAISLDR

YVAIRNPIEH SRFNSRTKAI MKIAIVWAIS IGVSVPIPVI GLRDEEKVFV NNTTCVLNDP

NFVLIGSFVA FFIPLTIMVI TYCLTIYVLR RQALMLLHGH TEEPPGLSLD FLKCCKRNTA

EEENSANPNQ DQNARRRKKK ERRPRGTMQA INNERKASKV LGIVFFVFLI MWCPFFITNI

LSVLCEKSCN QKLMEKLLNV FVWIGYVCSG INPLVYTLFN KIYRRAFSNY LRCNYKVEKK

PPVRQIPRVA ATALSGRELN VNIYRHTNEP VIEKASDNEP GIEMQVENLE LPVNPSSVVS ERISSV

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Human HTR2C Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.

• 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 will ensure that you receive a correctly folded 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:

- 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
- 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.

 Purity:
 >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

 Sterility:
 0.22 μm filtered

 Endotoxin Level:
 Protein is endotoxin-free.

 Grade:
 Crystallography grade

Target Details

Target:	HTR2C
Alternative Name:	HTR2C (HTR2C Products)
Background:	G-protein coupled receptor for 5-hydroxytryptamine (serotonin). Also functions as a receptor for
	various drugs and psychoactive substances, including ergot alkaloid derivatives, 1-2,5,-
	dimethoxy-4-iodophenyl-2-aminopropane (DOI) and lysergic acid diethylamide (LSD). Ligand
	binding causes a conformation change that triggers signaling via guanine nucleotide-binding
	proteins (G proteins) and modulates the activity of down-stream 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 down-stream signaling cascades
	and promotes the release of Ca(2+) ions from intracellular stores. Regulates neuronal activity
	via the activation of short transient receptor potential calcium channels in the brain, and
	thereby modulates the activation of pro-opiomelacortin neurons and the release of CRH that
	then regulates the release of corticosterone. Plays a role in the regulation of appetite and eating
	behavior, responses to anxiogenic stimuli and stress. Plays a role in insulin sensitivity and
	glucose homeostasis. {ECO:0000269 PubMed:12970106, ECO:0000269 PubMed:18703043,
	ECO:0000269 PubMed:19057895, ECO:0000269 PubMed:7895773}.
Molecular Weight:	49.5 kDa Including tag.
UniProt:	P28335
Pathways:	Inositol Metabolic Process, Regulation of Carbohydrate Metabolic Process, Feeding Behaviour
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:	In cases in which it is highly likely that the recombinant protein with the default tag will be
	insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to
	increase solubility. We will discuss all possible options with you in detail to assure that you
	receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

Images

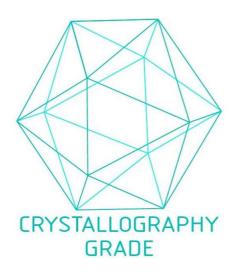


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process