

CNR2 Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702255
Synonyms:	Cannabinoid receptor 2; CX5; CB-2; CB2
Species:	Human
Source:	E. coli Cell-free
Accession:	P34972 (M1-C360)
Gene ID:	1269
Molecular Weight:	42.5 kDa

PROPERTIES

AA Sequence

M E E C W V T E I A	N G S K D G L D S N	P M K D Y M I L S G	P Q K T A V A V L C
T L L G L L S A L E	N V A V L Y L I L S	S H Q L R R K P S Y	L F I G S L A G A D
F L A S V V F A C S	F V N F H V F H G V	D S K A V F L L K I	G S V T M T F T A S
V G S L L L T A I D	R Y L C L R Y P P S	Y K A L L T R G R A	L V T L G I M W V L
S A L V S Y L P L M	G W T C C P R P C S	E L F P L I P N D Y	L L S W L L F I A F
L F S G I I Y T Y G	H V L W K A H Q H V	A S L S G H Q D R Q	V P G M A R M R L D
V R L A K T L G L V	L A V L L I C W F P	V L A L M A H S L A	T T L S D Q V K K A
F A F C S M L C L I	N S M V N P V I Y A	L R S G E I R S S A	H H C L A H W K K C
V R G L G S E A K E	E A P R S S V T E T	E A D G K I T P W P	D S R D L D L S D C

Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

CNR2 Protein-VLP, a heterotrimeric G protein-coupled receptor for the endocannabinoid 2-arachidonoylglycerol, plays a pivotal role in mediating the inhibition of adenylate cyclase. Its versatile functionality extends to potential involvement in

inflammatory responses, nociceptive transmission, and bone homeostasis. The receptor's ability to modulate cellular signaling pathways highlights its significance in various physiological processes, making CNR2 Protein-VLP a key player in the intricate regulation of inflammatory and sensory mechanisms, as well as contributing to the maintenance of bone equilibrium.

Caution: Product has not been fully validated for medical applications. For research use only.

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