

Recombinant Rat Cnr1 Protein

Cat. No. CNR1-1498R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat CNR1 Protein without tag was expressed in E. coli.
Species	Rat
Source	E.coli
Description	Enables cannabinoid receptor activity. Involved in several processes, including positive regulation of acute inflammatory response; regulation of secretion by cell; and response to alkaloid. Located in membrane raft and plasma membrane. Colocalizes with intracellular membrane-bounded organelle. Used to study several diseases, including Parkinsonism; diabetic neuropathy; impotence; obesity; and peptic ulcer disease. Biomarker of status epilepticus. Human ortholog(s) of this gene implicated in obesity; schizophrenia; and type 2 diabetes mellitus. Orthologous to human CNR1 (cannabinoid receptor 1).
Molecular Mass	58.9 kDa
AA Sequence	MKSILDGLADTTTERTITTDLLYVGSNDIQYEDIKGDMSKLGYPQKFPLTSFRGSPF QEKMTAGDNSPLVPAGDTTNITEFYNKSLSSFKENEENIQCGENFMDMECFMILNPS QQLAIAVLSLTGTFVLENLLVLCVILHSRSLRCRPSYHFIGSLAVADLLGSVIFVYSF VDFHVFHRKDSPNVFLFKLGGVTASFTASVGSFLTAIDRYISIHRLPLAYKRIVTRPKA VVAFCLMWTIAIVIAVLPLLGWNCKKLQSVCSDFPLIDETYLFWIGVTSVLLLFIVYA YMYILWKAHSHAVRMIQRGTQKSIIHTSEDGKVQVTRPDQARMDIRLAKTLVLILVVL IICWGPLLAIMVYDVFGKMNKLIKTVFAFCSMLCLLNSTVNPPIYALRSKDLRHAFRSM

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	FPSCEGTAQPLDNSMGDSDCLHKHANNTASMHRAAESCICKSTVKIAKVTMSVSTDT SAEAL
Purity	≥ 90% by SDS-PAGE
Storage	Store it at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Lyophilized from 20 mM Tris-HCl, 0.15 M NaCl, 0.05% DDM, 6% Trehalose, pH 8.0. The volume before lyophilization is 100 µL/vial.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20/-80 centigrade. Our default final concentration of glycerol is 50%. Customers could use it as reference.

GENE INFORMATION

Gene Name	Cnr1 cannabinoid receptor 1 [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Cnr1
Synonyms	Cnr1; cannabinoid receptor 1; SKR6R; cannabinoid receptor 1; CB-R; CB1; brain-type cannabinoid receptor; cannabinoid receptor 1 (brain)
Gene ID	25248
mRNA Refseq	NM_012784
Protein Refseq	NP_036916

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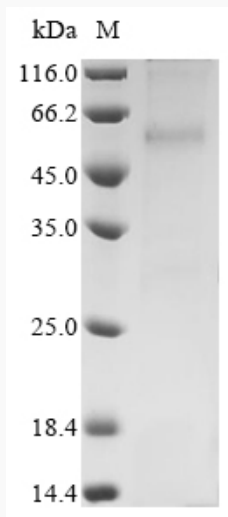
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UniProt ID

P20272

SDS-PAGE



Observed band size: 59 kDa

(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel. Boiling SDS-treated samples may result in membrane protein aggregation. Incubation at 37 centigrade for 10 min is an effective alternative.

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