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# Product Information



## CB<sub>1</sub> Receptor (C-Term) Blocking Peptide

Item No. 10006591

The CB<sub>1</sub> receptor is a G-protein coupled receptor that binds the active component of cannabis, Δ<sup>9</sup>-tetrahydrocannabinol.<sup>1,2</sup> Human and rat CB<sub>1</sub> receptors exhibit 97.3% homology at the amino acid level over the complete protein, and 100% homology within the peptide sequence used to make the Cayman CB<sub>1</sub> Receptor polyclonal antibody (Item No. 10006590).<sup>3,4</sup> This peptide exhibits no homology with the CB<sub>2</sub> receptor. Based on the amino acid sequence, the CB<sub>1</sub> receptor has a molecular weight of approximately 52,800.<sup>4</sup> The CB<sub>1</sub> receptor and the splice variant CB<sub>1a</sub> are localized mainly in the brain whereas the CB<sub>2</sub> receptor is localized predominantly in peripheral tissues, including the spleen and hematopoietic cells.<sup>3-6</sup>

### Laboratory Procedures

This vial contains 200 μg peptide in 200 μl TBS, pH 7.4, containing 0.1% BSA and 0.02% sodium azide. The CB<sub>1</sub> receptor (C-Term) blocking peptide (human CB<sub>1</sub> Receptor amino acids 461-472) can be used in conjunction with Cayman's CB<sub>1</sub> Receptor (C-Term) Polyclonal Antibody (Item No. 10006590) to block protein-antibody complex formation during immunochemical analysis of CB<sub>1</sub> Receptor.

Store this peptide solution at -20°C. It will be stable for at least two years. To block antibody/protein complex formation, the following procedure is recommended:

1. Mix the CB<sub>1</sub> Receptor (C-Term) Polyclonal Antibody (Item No. 10006590) and blocking peptide together in a 1:1 (v/v) ratio in a microfuge tube. For example, mix 20 μl of antibody and 20 μl of peptide.\*
2. Incubate for one hour at room temperature with occasional mixing prior to further dilution and application of the mixture to the immunoblot.
3. Dilute the mixture to the final working antibody concentration and apply to the slide or membrane as usual.

\*This is a recommended mixture. The minimum amount of peptide needed for complete blocking has not been precisely determined and may vary depending on the sample being analyzed. The amount of peptide required may need to be increased if sufficient blocking does not occur.

### References

1. Howlett, A.C., Song, C., Berglund, B.A., *et al.* Characterization of CB<sub>1</sub> cannabinoid receptors using receptor peptide fragments and site-directed antibodies. *Mol. Pharmacol.* **53**, 504-510 (1998).
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3. Gérard, C.M., Mollereau, C., Vassart, G., *et al.* Molecular cloning of a human cannabinoid receptor which is also expressed in testis. *Biochem. J.* **279**, 129-134 (1991).
4. Matsuda, L.A., Lolait, S.J., Brownstein, M.J., *et al.* Structure of a cannabinoid receptor and functional expression of the cloned cDNA. *Nature* **346**, 561-564 (1990).
5. Shire, D., Carillon, C., Kaghad, M., *et al.* An amino-terminal variant of the central cannabinoid receptor resulting from alternative splicing. *J. Biol. Chem.* **270**, 3726-3731 (1995).
6. Shire, D., Calandra, B., Rinaldi-Carmona, M., *et al.* Molecular cloning, expression and function of the murine CB<sub>2</sub> peripheral cannabinoid receptor. *Biochim. Biophys. Acta* **1307**, 132-136 (1996).

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