Title	[³H] 2-(4-phenylpiperidino) cyclohexanol (AH 5183) binding to synaptosomes and subcellular fractions obtained from rat brain
Sub Title	
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Publisher	共立薬科大学
Publication year	1993
Jtitle	共立薬科大学研究年報 (The annual report of the Kyoritsu College of Pharmacy). No.38 (1993.) ,p.77- 77
Abstract	
Notes	抄録
Genre	Technical Report
URL	https://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=AN00062898-00000038-0077

[^{3}H]2-(4-Phenylpiperidino)cyclohexanol (AH 5183) binding to Synaptosomes and Subcellular Fractions Obtained from Rat Brain*

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We investigated the binding of [^{3}H]AH 5183 (2-(4-phenylpiperidino)cyclohexanol) to rat brain synaptosomes and subcellular fractions. A high content of specific binding was observed in crude synaptosomes obtained from the striatum, cerebral cortex and hippocampus. The highest density of subcellular binding sites was observed in the synaptic vesicle-rich fraction. The affinities of AH 5183 binding to crude synaptosomes and the synaptic vesicle-rich fraction were almost equivalent, but the density of binding sites was higher in the synaptic vesicle fraction. The present findings indicate that [^{3}H]AH 5183 binding to both synaptosomes and the synaptic vesicle-rich fraction is useful as a cholinergic marker, and that for quantitative studies. binding to the latter fraction is more preferable.

* 本報告は *Neuroscience Letters*, **157** : 72—74 (1993) に発表。