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论文		扩展功能
→羟基色胺类似物 Ⅳ.新型抗惊厥药——2-二正丁氨甲基吲(?)的类似化合物		本文信息
周启霆;邹冈;嵇汝运		Supporting info
中国科学院药物研究所,上海		PDF <u>(613KB)</u>
摘要:		▶[HTML全文]
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合成了若干2-二烷氨甲基类化合物以及3-二正丁氨甲基吲(口朶)、3-(β-二烷氨乙基)吲(口朶) 丁氨乙基)-5-甲氧基吲(口朶),这些化合物为前文所述具有抗惊厥作用的2-二正丁氨甲基吲(口朶) 步药理评价后,探讨了化学结构与抗惊厥作用间关系,其中以2-二正丁氨甲基-3-甲基吲(口朶)作	口朶)和2-甲基-3-(β-二正	服务与反馈
	口朵)的类似化合物,经初 \\佐田为是程	▶把本文推荐给朋友
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Abstract:		本文作者相关文章
		)周启霆
A novel structural type of anticonvulsants represented by 2-di-n-butylaminometh	minomethyl indole (Ia) was elationships between structure present work a number of related ation. It has been demonstrated	▶ 邹冈
previously reported by the authors. In order to investigate further the relationship and activity and to search for more favourable anticonvulsants, in the present wo		• 嵇汝运
compounds has been prepared and subjected to pharmacological evaluation. It h		PubMed
that the replacement of the butyl group in Ia by lower or higher alkyls diminishes the anticonvulsant		Article by

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a methyl group at the 3-position. Substituents on the benzene ring in ; VII reduce the anticonvulsant activity, but complete loss of activity has been observed only in a few cases. 3-Di-n-butylaminomethyl indole, the position isomer of Ia, and its several homologs exhibit almost no anticonvulsant activity. 3-Di-n-butylaminomethyl indole was prepared by a Mannich condensation of indole, di-n-butylamine, and formaldehyde.  $3-\beta$ -Dialkylaminoethyl indoles were prepared through the interaction of indole-3glyoxyloyl chloride with dialkylamines followed by the reduction of the resulting amides with lithium aluminium hydride. Ethyl 2-methyl-5-methoxy-indole-3-acetate was converted via hydrazide into the corresponding acyl azide, which gave N,N-di-n-butyl-2-methyl-5-methoxy-indole-3-acetamide on interaction with di-n-butylamine. Reduction of the amide with lithium aluminium hydride afforded 2methyl-3- $\beta$ -di-*n*-butylaminoethyl indole (VI). For the syntheses of ring substituted derivatives (VII), aniline and various substituted anilines were diazotized and subjected to a modified Japp-Klingemann reaction with methyl or ethyl diethyl keto-succinate. The resulting hydrazones were converted into substituted derivatives of ethyl indole-2-carboxylates, which were hydrolyzed to the corresponding acids (X). These acids were converted to the acyl chlorides (XI) and then to the N,N-di-*n*-butyl amides (XI). Reduction of the compounds XII led to VII. 2-Dialkylaminomethyl indoles were prepared similarly from indole-2-carboxylic acid and corresponding dialkylamines.

activity. The therapeutic index of Ia can be enhanced and its duration of action prolonged by introducing

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反馈人	邮箱地址	
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