研究简报

新型脑受体显像剂^{99m}Tc- Memantine的制备及药盒化 张建康

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收稿日期 2008-7-11 修回日期 2008-9-11 网络版发布日期: 2008-11-20

摘要 合成了 N-[2-(N-(2-巯基乙基))氨基甲酰甲基]-N-(2-巯基乙基)-3,5-二甲基金刚烷胺基乙酰胺(II N2S 2- Memantine),对其进行99mTc标记。用氟化亚锡作还原剂,与高锝酸钠盐溶液反应,生成的新型脑受体显像剂I 99mTc(V)- Memantine,优化标记条件,进一步研制了无菌99mTc(V)- Memantine一步法冻干药盒。薄层色谱(TLC)对标记物进行质控,检测标记物的体外稳定性。结果显示,标记物的放化纯度〉95%,稳定性好,有望成为一种新型脑受体显像剂。

Preparation of 99mTc-Memantine as a Novel Brain Recept 服务与反馈 or I maging Agent and I ts Lyophilized Kit

Abstract The precursor of compound II N2S2-Memantine was synthesized. N2S2-Memantine was labeled with 99mTc by using stannous fluoride as reducing agent, and the labeling condition s of I 99mTc (V) - Memantine were optimized, and lyophilized kit of 99mTc (V) - Memantine was also developed. The labeling yields in excess of 90% and radiochemical purity more than 95% by the TLC analyses. The product was good stability in room temperature. 99mTc

(V) - Memantine would be a potential brain receptor imaging agent which would need more re search work.

Key words 99mTc labeling memantine bis(aminoethanethiol) analog brain receptor imaging agent

DOI

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