

ABSTRACT

NOVEL MAGNETIC RESONANCE IMAGING AGENTS

Novel magnetic resonance imaging agents comprise complexes of paramagnetic ions with alkoxyalkylamide derivatives of diethylenetriaminepentaacetic acid ("DTPA") or ethylenediaminetetraacetic acid ("EDTA"). These novel imaging agents are characterized by excellent NMR image-contrasting properties and by high solubilities in physiological solutions. A novel method of performing an NMR diagnostic procedure involves administering to a warm-blooded animal an effective amount of a complex as described above and then exposing the warm-blooded animal to an NMR imaging procedure, thereby imaging at least a portion of the body of the warm-blooded animal.