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(54) Title: SINGLE DIASTEREOMERS OF 4-FLUOROGLUTAMINE AND METHODS FOR THEIR PREPARATION AND USE

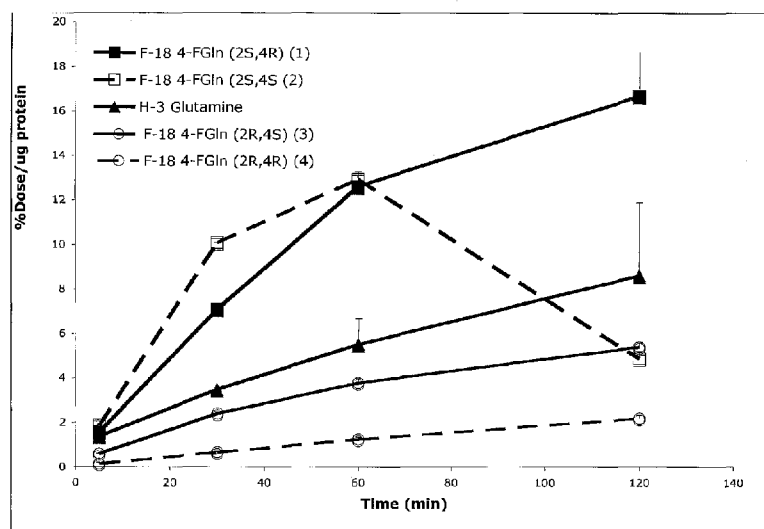


FIG. 1

(57) Abstract: The present invention is directed single diastereomers of 4-fluoroglutamine having a diastereomeric excess of at least 80%. Methods of preparing the single diastereomers are also described, as well as methods of using the single diastereomers of radiolabeled 4-fluoroglutamine as imaging agent is also described.