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(54) Title: GLUTATHIONYLSPERMIDINE SYNTHETASE

(57) Abstract

The present invention describes an enzyme showing glutathionylspermidine synthetase–activity and being distinct from known enzymes with similar activities in several physicochemical parameters, a novel process to isolate said enzyme from *Crithidia fasciculata*, tools for the production thereof in genetically transformed organisms, and its use as a molecular target for the discovery of trypanocidal drugs.