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(71) Applicants *(for all designated States except US)*: **GENEMEDIX PLC** [GB/GB]; Rosalind Franklin House, Fordham Road, Newmarket, Suffolk CB8 7XN (GB). **SHANGHAI C.A.S SHENGLONGDA BIOTECH (GROUP) COMPANY** [CN/CN]; 3rd Floor, 51 Cao Bao Road, Shanghai (CN).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **ZHANG, Youshang** [CN/CN]; 320 Yue Yang Road, Shanghai 200031 (CN). **DING, Jinguo** [CN/CN]; 320 Yue Yang Road, Shanghai 200031 (CN). **SHI, Jaihao** [CN/CN]; 320 Yue Yang Road, Shanghai 200031 (CN). **CUI, Dafu** [CN/CN]; 320 Yue Yang Road, Shanghai 200031 (CN).

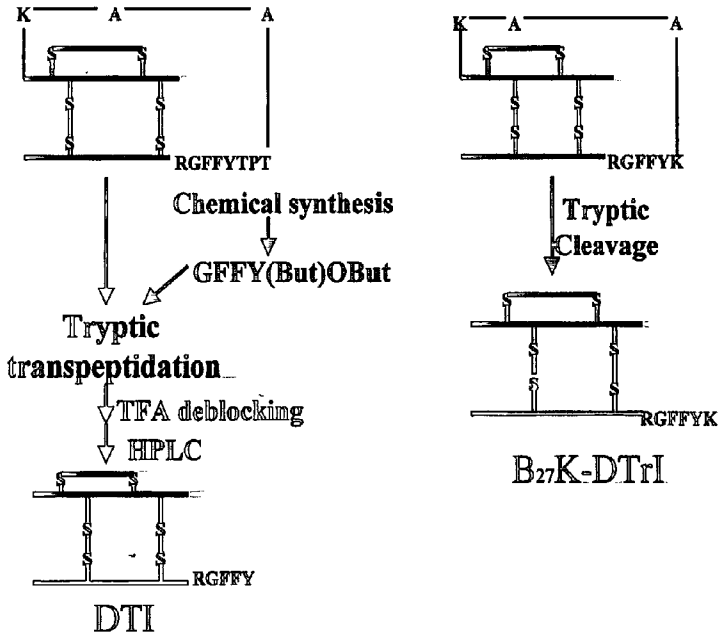
(74) Agent: **WHITE, Nicholas, J.**; Rouse Patents, Windsor House, Cornwall Road, Harrogate HG1 2PW (GB).

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[Continued on next page]

(54) Title: MONOMERIC INSULIN



(57) Abstract: This invention provides a novel monomeric insulin (B_{27}K-DTrI, B_{27}K-destripeptide-Insulin), its composition and the method of preparation therefore. Highly pure B_{27}K-DTrI-Insulin is monomeric (non-associative at high concentration and physiological pH) with in-vivo bioactivity being 80% of that of native insulin. B_{27}K-DTrI-Insulin can be produced by enzyme cleavage of a monomeric insulin precursor secreted by yeast instead of by the less efficient enzyme transpeptidation as known in the prior art. The new method increases the total yield and is favorable for industrial production.

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