



>>Entry Name: Alteplase, BAN, INN, JAN, USAN

Synonym(s): Actilyse. Activase. Besospartin. Tissue plasminogen activator. G 11021 (2-chain form). G 11035. G 11044. tPA

CAS Registry Number: 105857-23-6

Molecular Formula: $C_{2736}H_{4174}N_{914}O_{824}S_{45}$

Molecular Weight: 64497.669

Accurate Mass: 64456.024296

Percentage Composition: C 50.95%; H 6.52%; N 19.85%; O 20.44%; S 2.24%

General Statement: Haemostatic protein containing 527 amino acid residues

Biological Use/Importance: Converts fibrin-bound plasminogen into plasmin (plasminogen activator). Used in treatment of myocardial infarction and embolism

Development Status: Marketed drug. Launched 1987.

References:

Rijken, D.C. *et al.*, *Biochim. Biophys. Acta*, 1979, **580**, 140, (*isol*)

Pennica, D. *et al.*, *Nature (London)*, 1983, **301**, 214, (*cloning*)

Crabbe, S.J. *et al.*, *Clin. Pharm.*, 1987, **6**, 373, (*rev*)

Collen, D. *et al.*, *Drugs*, 1989, **38**, 346, (*rev*)

Martin, U. *et al.*, *Thromb. Haemostasis*, 1991, **65**, 560, (*pharmacokinet*)

Gillis, J.C. *et al.*, *Drugs*, 1995, **50**, 102-136; 289-316, (*rev*)

Froehlich, J. *et al.*, *Thrombolytic Therapy for Peripheral Vascular Disease*, (Ed. Comerota, A.J.), J.B. Lippincott, 1995, 103; 349, (*rev*)

Martindale, *The Extra Pharmacopoeia*, 32nd edn., Pharmaceutical Press, 1999, 818