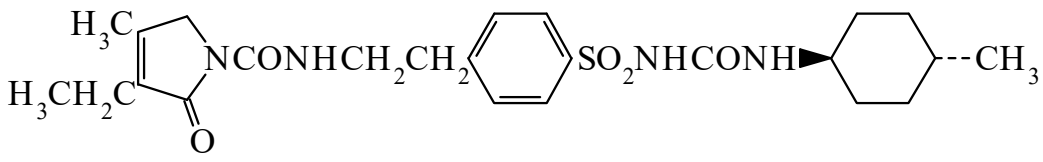
>>**Entry Name: Glimepiride,** BAN, INN, USAN
Synonym(s): 3-Ethyl-2,5-dihydro-4-methyl-*N*-[2-[4-[[[[(4-methylcyclohexyl)amino]carbonyl]amino]sulfonyl]phenyl]ethyl]-2-oxo-1*H*-pyrrole-1-carboxamide, 9CI. Grimepiride. Amaryl. Hoe 490



Molecular Formula: $C_{24}H_{34}N_4O_5S$
Molecular Weight: 490.622
Accurate Mass: 490.224991
Percentage Composition: C 58.75%; H 6.98%; N 11.42%; O 16.31%; S 6.54%
Use/Importance: Potassium channel blocker. Cyclooxygenase pathway inhibitor. Hypoglycaemic agent
Biological Use/Importance: Drug used in treatment of non-insulin dependent diabetes mellitus
Development Status: Launched 1995 (Sweden)

>>**Variant:** (1*RS*,4*RS*)-form
Synonym(s): (±)-*trans*-form

CAS Registry Number: 93479-97-1
Molecular Formula: $C_{24}H_{34}N_4O_5S$
Molecular Weight: 490.622
Accurate Mass: 490.224991
Percentage Composition: C 58.75%; H 6.98%; N 11.42%; O 16.31%; S 6.54%
Melting Point: Mp 207°
Hazard & Toxicity: LD_{50} (rat, ipr) > 3950 mg/kg

References:

Weyer, R. *et al.*, *Arzneim.-Forsch.*, 1988, **38**, 1079; 1120, *(synth, pharmacol)*
Lehr, K.H. *et al.*, *J. Chromatogr.*, 1990, **526**, 497, *(hplc)*
Leclercq-Meyer, V. *et al.*, *Biochem. Pharmacol.*, 1991, **42**, 1634, *(pharmacol)*
Ozaki, Y. *et al.*, *Biochem. Pharmacol.*, 1992, **44**, 687, *(pharmacol)*
Donaubauer, H.H. *et al.*, *Arzneim.-Forsch.*, 1993, **43**, 547; 1068, *(tox, exp)*
Ratheiser, K. *et al.*, *Arzneim.-Forsch.*, 1993, **43**, 856, *(pharmacol, human)*
Müller, G. *et al.*, *Biochem. J.*, 1993, **289**, 509, *(pharmacol)*
Müller, G. *et al.*, *Biochem. Pharmacol.*, 1994, **48**, 985, *(pharmacol)*
Iwata, M. *et al.*, *Acta Cryst. C*, 1997, **53**, 329-331, *(cryst struct)*
Langtry, H.D. *et al.*, *Drugs*, 1998, **55**, 563-584, *(rev)*
Nguyen, C. *et al.*, *Drugs of Today (Barcelona)*, 1998, **34**, 391-400; 401-408, *(rev)*