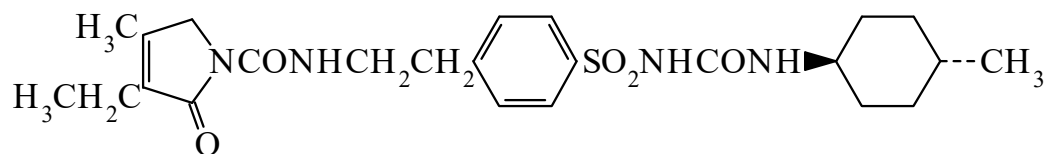




>>Entry Name: Glimepiride, BAN, INN, USAN

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



Molecular Formula: C₂₄H₃₄N₄O₅S

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: C₂₄H₃₄N₄O₅S

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: LD₅₀ (rat, ipr) > 3950 mg/kg

References:

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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*)
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