

Cefuroxime Axetil (Cas No 55268-75-2)

Cefuroxime Axetil

CAS number 55268-75-2

Formula C₁₆H₁₆N₄O₈S

Mol. mass 424.386 g/mol

ATC code J01DC02

PubChem 41375

DrugBank APRD00285

ChemSpider 4514699

Pharmacokinetic data

Bioavailability 37% on empty stomach, up to 52% if taken after food

Metabolism axetil moiety is metabolized to acetaldehyde and acetic acid

Half life 80 minutes

Excretion Urine 66-100% Unchanged

Systematic (IUPAC) name

4-(carbamoyloxymethyl)-8- [2-(2-furyl)-2-methoxyimino-acetyl]amino -7-oxo-

2-thia-6-azabicyclo[4.2.0]oct -4-ene-5-carboxylic acid

Chemically, cefuroxime axetil, the 1-(acetyloxy) ethyl ester of cefuroxime, is (RS)-1-hydroxyethyl (6R,7R)-7-[2-(2-furyl)glyoxyl-amido]-3-(hydroxymethyl)-8-oxo-5-thia-1-azabicyclo[4.2.0]-oct-2-ene-2-carboxylate, 7Z-(Z)-(O-methyl-oxime), 1-acetate 3-carbamate. Its molecular formula is C₂₀H₂₂N₄O₁₀S, and it has a molecular weight of 510.48.