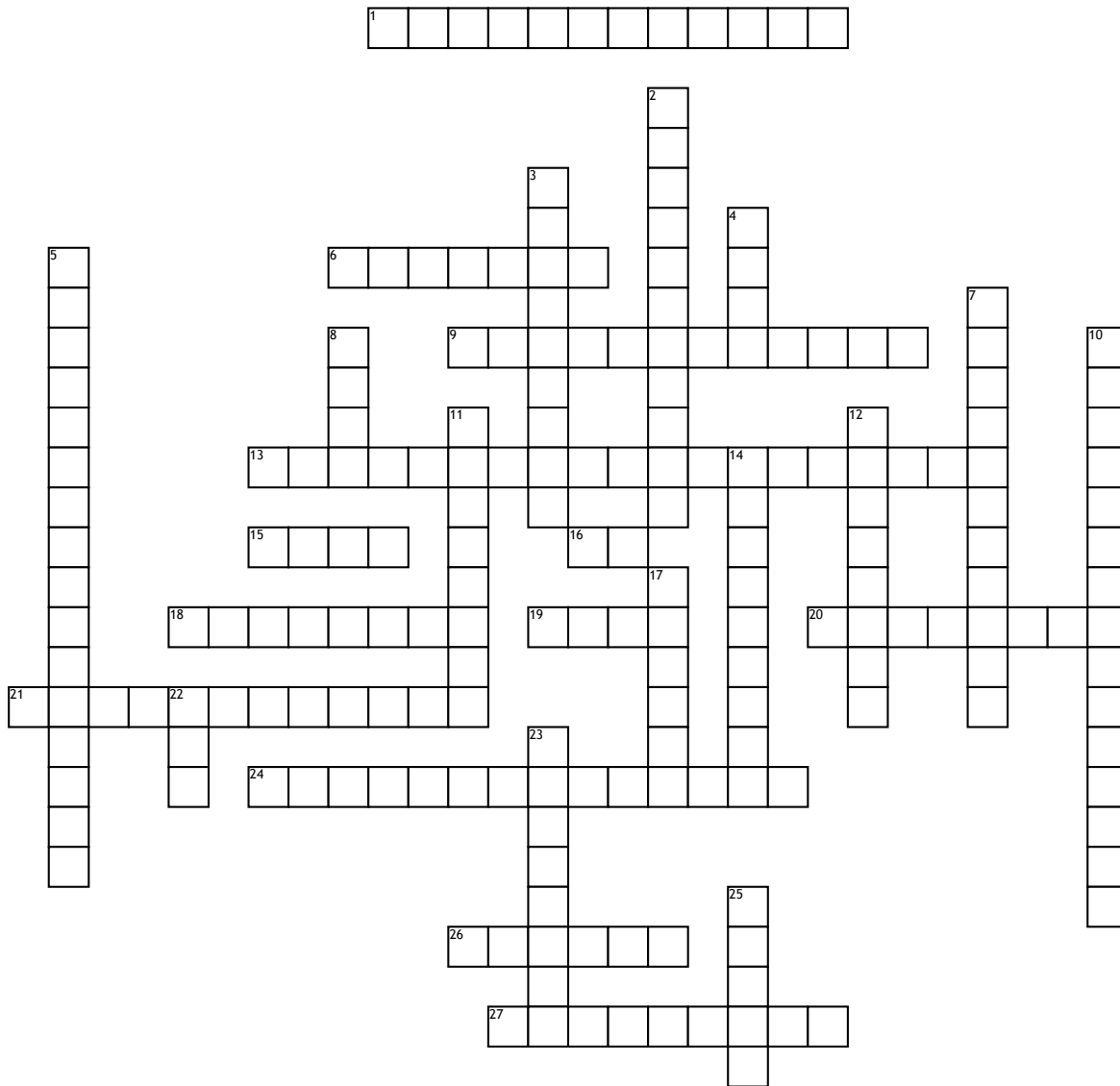


# Omeprazole



## Across

1. Omeprazole inhibits the secretion of... by irreversibly blocking enzymes of H<sup>+</sup>, K<sup>+</sup>-ATPase.
6. A low pKa means an increase electronegativity and an increase in the... . Omeprazole has a pKa of 4, this is because of the fact that it would be operating in a highly acidic environment in the stomach cells.
9. This Indication causes inflammation that may damage tissue in the muscular tube that transports food from the mouth to the stomach, making it difficult to swallow food, and painful...
13. It was not until 1989, omeprazole was launched to the UK population. Omeprazole was the first...
15. Omeprazole was first discovered in the late...
16. There are ... capsules and tablets sold in 10mg and 20mg
18. Omeprazole has an efficient oral bioavailability according to the... Rule of Five. This is because the omeprazole molecular weight is less than 500, The log P is also less than 5. There are no more than 5 Hydrogen bond donors and there are no more than 10 hydrogen bond acceptors.
19. Omeprazole has a 1 HBD, and...

20. Gastro-resistant tablets have a coating, that in acid does not...

21. All forms Omeprazole requires a... to be obtained from a pharmacy.
24. The Rare or Very Rare Side effects stated on the BNF 78 are Aggression, agitation, bronchospasm, encephalopathy, gastrointestinal candidiasis and...
26. Omeprazole has a log P of 2. Log P represents the permeability of the drug to pass through the... membrane of cells and the ability to bind to their targets.
27. Although Omeprazole can be sold in non-proprietary (generic) form. There are 3 companies in the UK that manufacture omeprazole: Mepradec (Discovery Pharmaceuticals), Losec MUPS (Astra Zeneca) and... (By Sandoz Ltd)
- Down**
2. A low Log P means the molecule is...
3. The proton pumps are found in the lining of stomach, the gastric parietal cells. It pumps the H<sup>+</sup> into the lumen, by exchanging Hydrogen ions for... ions
4. There are 7 capsules and tablets sold in...
5. There is some... between the oxygen in the S=O and the hydrogen in the C-H connected to the benzene ring.

7. The indications for omeprazole are for Helicobacter pylori eradication in combination with other drugs. Benign gastric...

8. There number of contraindications stated on the BNF for Omeprazole is...
10. Omeprazole can be distributed in the form of a... tablet and capsule.
11. Despite being in capsules and tablets, they can be administered as an...
12. The rings formed in the molecule produce fixed bonds creating...
14. Common side effects of Omeprazole are abdominal pain, insomnia, nausea, skin reactions, vomiting and...
17. An Omeprazole molecule contains Oxygen, Nitrogen, Sulphur and...
22. The Log P being around 2 means it would have side effects to the... causing side effects such as dizziness, a common side effect for omeprazole.
23. A characteristic of a molecule that determines its permeability to the cell
25. Now merged with a British company known as Zeneca, what Swedish company discover Omeprazole?