

In chemistry, a hydroxy or hydroxyl group is a functional group with the chemical formula  $\text{--OH}$  and composed of one [oxygen atom](#) covalently bonded to one hydrogen atom. In organic chemistry, alcohols and carboxylic acids contain one or more hydroxy group

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[2-Deoxy-D-glucose](#) is a [glucose](#) molecule which has the 2-[hydroxyl group](#) replaced by [hydrogen](#), so that it cannot undergo further [glycolysis](#). As such; it acts to competitively inhibit the production of glucose-6-phosphate from glucose at the phosphoglucisomerase level (step 2 of glycolysis).

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