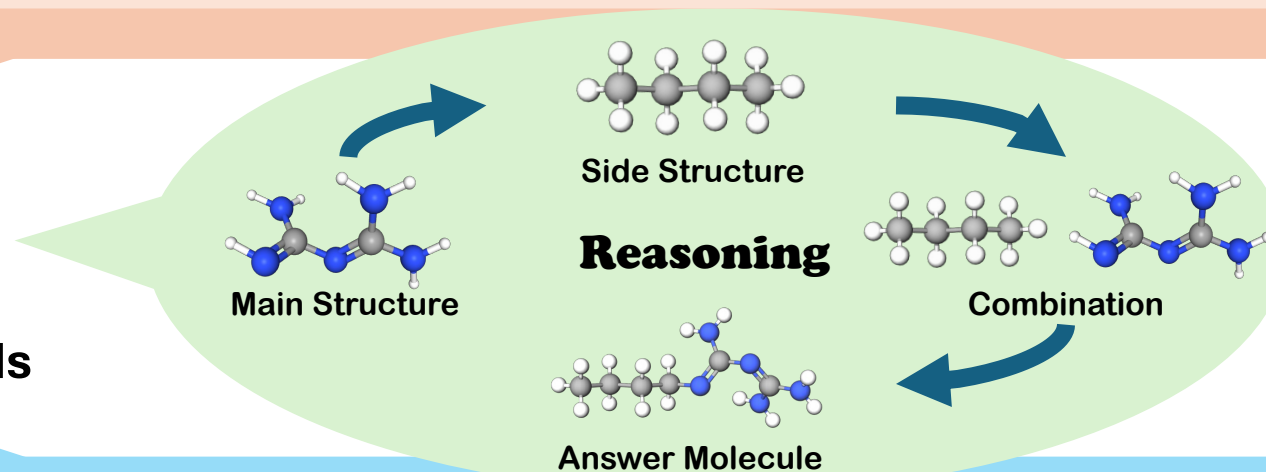


Molecule Description

The molecule is a member of the class of biguanides that is biguanide substituted by a butyl group at position 1. It is an antidiabetic drug with potential antitumor effect. It has a role as a hypoglycemic agent, a geroprotector, a radiosensitizing agent, an antineoplastic agent and an antiviral agent. It is functionally related to a biguanide.



CoT + Answer

Main Structure: Biguanide is composed of two guanidino groups connected by a bridging nitrogen $\text{N}=\text{C}(\text{N})\text{N}=\text{C}(\text{N})\text{N}$.

Side Structure: There is a butyl group ($\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-}$: CCCC) substitution at position 1.

Combination: The carbon of the butyl chain will connect to the nitrogen of the biguanide structure.

Answer: CCCCN=C(N)N=C(N)N