Molecular description generation Could you give me a brief overview of this molecule? Br Please suggest some possible reagents that could have been used in the following chemical reaction: Description-guided molecule design Create a molecule that satisfies the conditions outlined in the description: "The molecule appears as a yellow or red crystalline solid or powder. Combustible. Insoluble in water. Toxic by inhalation (dust) and ingestion." Design a protein that exhibits the desired activity and specificity: "1. The protein contains novel MGS-like domains that confer a unique function or activity. 2. The designed protein must possess methylglyoxal synthase activity. 3. The protein should be able to bind substrate ligand in a variety of conditions." Domain/motif prediction Please examine the following protein and predict any domains you can discern: Functional description generation Please provide a summary of the key features and characteristics of this protein: Chemical entity recognition Find and list all the chemical entities: "Addition of the inhibitors of endothelial nitric oxide synthase or estrogen receptor did not alter the protective effect of genistein." Is diffusion-weighted imaging a significant indicator of the development of vascularization in hypovascular hepatocellular lesions?

Which contain DNA sequences required for the segregation of chromosomes in mitosis

and meiosis? (A) Telomeres (B) Centromeres (C) Nucleosomes (D) Spliceosomes

Reagent Prediction

Protein design

True or false question

Multi-choice question

LLMs LLaMA Vicuna Falcon

Molecular description generation The overview of the given molecule is:

"The molecule appears as a water-white liquid with a pungent odor. Denser than water.

Reagent Prediction

The possible reagent is:

Description-guided molecule design

Irritates skin, eyes and mucous membranes. Used to make other chemicals."

The molecule designed based on this description is:

Protein design

The designed protein is

Domain/motif prediction

We have identified potential protein domains within your

provided sequence: ATP-grasp domains.

Functional description generation

Here is a summary of the given protein:

"Has a role in promoting intracellular calcium ion sequestration via the exchange of calcium

ions for hydrogen ions across the vacuolar membrane".

Chemical entity recognition

The chemical entities are: "nitric oxide", "estrogen", "genistein".

True or false question No, the signal intensity on DWI showed no significant difference



in the development of vascularization.

Multi-choice question

The final answer is (B).