

Round-trip Training



Generator Training

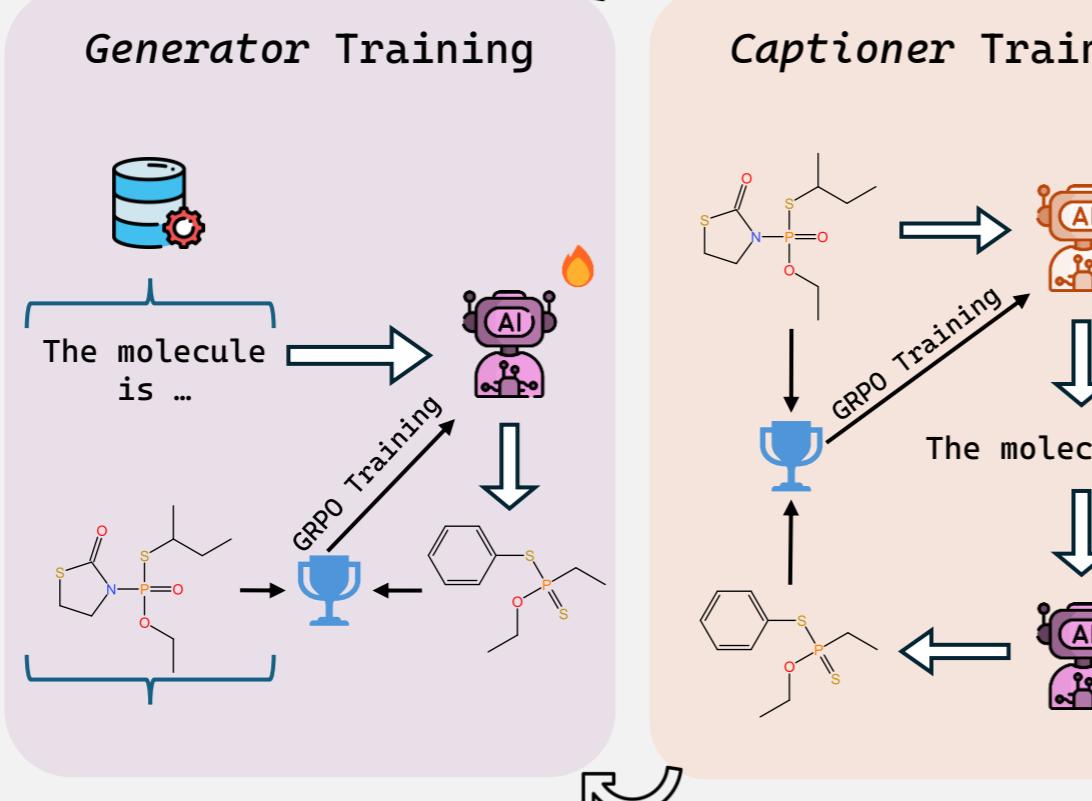
Captioner

prompt₁



Generator

prompt₂



Captioner Training



GRPO Training



The molecule is ...



GRPO Training

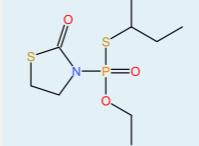


The molecule is ...



Reward Calculation

Reference molecule

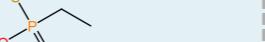


Reconstructed molecule

CCOP(=S)(CC)Sc1ccccc1

SMILES valid?

Yes



Exact match: 0

Similarity: 0.1887

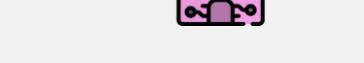
Final Reward: 0.1887

0

Round-trip Evaluation



The molecule is ...



Final Result