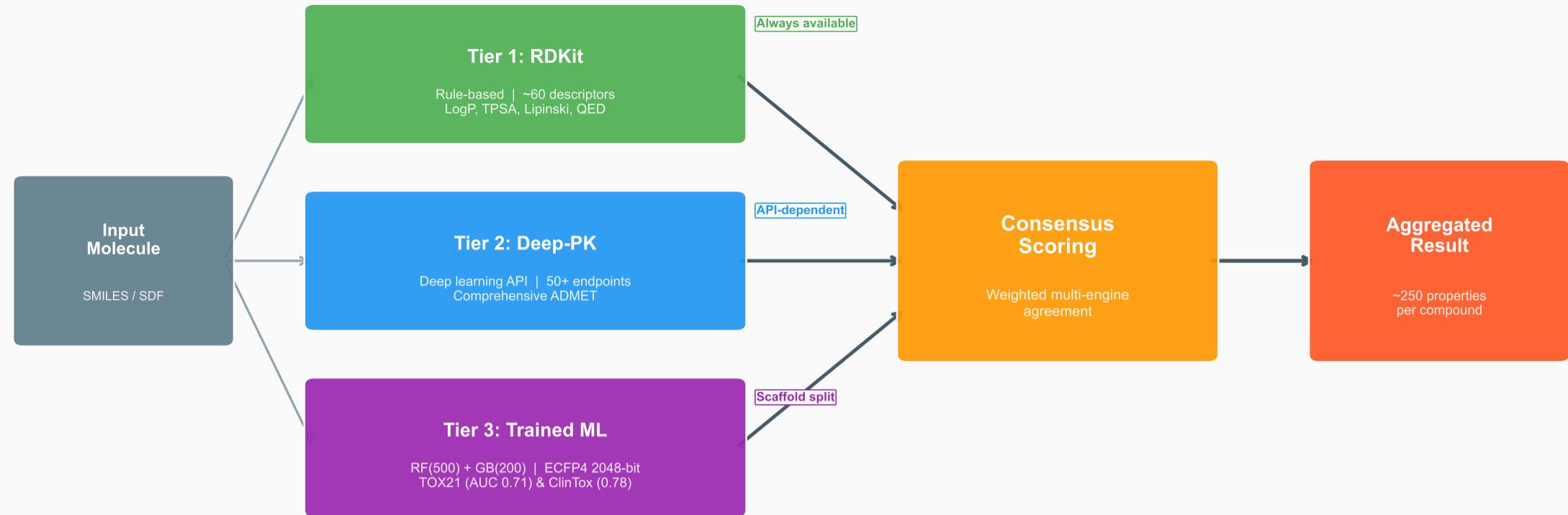


## (A) Three-Tier Multi-Engine Prediction Architecture



## (B) Enhanced Translational Features Pipeline



## (C) End-to-End Processing Flow



Processing time: ~2-5 seconds per compound (single) | ~30 seconds for 100 compounds (batch via Celery)