

## 1. **Ligand Building**

Ligand is preferentially built with the Maestro software from Schrodinger suite. Avogadro can also be used. If The ligand is a known compound derivative, it is better to download it (*mol2 of pdb format*) from the pdb / pubchem / zinc databases to prevent construction mistakes.

Add atoms and chemical groups (to the initial compound in case of derivatives) until the desired structure is achieved. Special care must be taken to correctly assign the covalent bond types and groups charges.

Finally, quickly optimize the structure geometry (Ctrl+M in Maestro, Ctrl+Alt+O in Avogadro) and save the compound as a mol2 file.

## 1. **Restraints calculation**

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