

3. **Uridine triphosphate [8] (UTP) (CHEBI:15713)**
Formula: C₉H₁₅N₂O₁₅P₃
Molecular Mass: 484.14
Log P: -5.8
H bond donor: 7
H bond acceptor: 15
4. **IDX-184 [9]**
Formula: C₂₅H₃₅N₆O₉PS
Molecular Mass: 626.6
Log P: -1.3
H bond donor: 6
H bond acceptor: 13
5. **Sofosbuvir [10] (UTP derivative) CHEBI:85083**
Formula: C₂₂H₂₉FN₃O₉P
Molecular Mass: 529.4
Log P: 1
H bond donor: 3
H bond acceptor: 11
6. **Ribavirin [11] (CHEBI:63580)**
Formula: C₈H₁₂N₄O₅
Molecular Mass: 244.2
Log P: -1.8
H bond donor: 4
H bond acceptor: 7.

5.2 Docking of the Chemicals in HEX

The docking association of the above six ligands with RNA-dependent RNA polymerase domain was studied on HEX [12] and illustrated as follows:

1. **IDX-184** (Fig. 5.1).
2. **Guanosine Triphosphate** (Fig. 5.2).
3. **Uridintriphosphate** (Fig. 5.3).
4. **Sofosbuvir** (Fig. 5.4).
5. **Ribavirin** (Fig. 5.5).
6. **Remdesivir** (Fig. 5.6).