

1. Upload your CSV data

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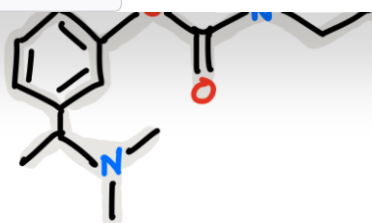
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compounds.txt
284.0B

Predict



$plC_{50} = 6.5$

Input
Molecule

Target
Protein

Predicted
Bioactivity

Bioactivity Prediction App (COVID19)

This app allows you to predict the bioactivity towards inhibiting the **Replicase polyprotein** enzyme. **Replicase polyprotein** is a drug target for COVID19.

Acknowledgement

- The app is modified and originally built in **Python** + **Streamlit** by [Chanin Nantasenamat]

Original input data

	0	1
0	<chem>CCOC1nn(-c2cccc(OCc3ccccc3)c2)c(=O)o1</chem>	CHEMBL133897
1	<chem>O=C(N1CCCCC1)n1nc(-c2ccc(Cl)cc2)nc1SCC1CC1</chem>	CHEMBL336398
2	<chem>CN(C(=O)n1nc(-c2ccc(Cl)cc2)nc1SCC(F)(F)F)c1ccccc1</chem>	CHEMBL131588
3	<chem>O=C(N1CCCCC1)n1nc(-c2ccc(Cl)cc2)nc1SCC(F)(F)F</chem>	CHEMBL130628
4	<chem>CSc1nc(-c2ccc(OC(F)(F)F)cc2)nn1C(=O)N(C)C</chem>	CHEMBL130478

Calculated molecular descriptors

	Name	Pubc	Pubc	Pubc	Pubc	Pubc	Pubc	Pubc	Pubc	Pubc	Pubc	Pubc	Pubc	Pubc	Pubc	Pubc	Pubc
0	CHEMBL130628	1	1	1	0	0	0	0	0	0	1	1	1	1	0	1	1
1	CHEMBL336398	1	1	1	0	0	0	0	0	0	1	1	1	1	0	1	1
2	CHEMBL133897	1	1	1	0	0	0	0	0	0	1	1	1	1	0	1	1
3	CHEMBL131588	1	1	0	0	0	0	0	0	0	1	1	1	1	0	1	1
4	CHEMBL130478	1	1	0	0	0	0	0	0	0	1	1	1	0	0	1	1

(5, 882)

Subset of descriptors from previously built models

	Pubc	Pubc	Pubc	Pubc	Pubc	Pubc	Pubc	Pubc	Pubc	Pubc	Pubc	Pubc	Pubc	Pubc	Pubc	Pubc	Pubc	Pubc	Pubc
0	1	0	0	1	0	0	0	1	1	1	1	1	1	1	0	0	0	1	1
1	1	0	0	1	0	0	0	0	0	1	1	1	1	1	0	0	0	1	1
2	1	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	0	0
3	0	0	0	1	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0
4	0	0	0	1	0	1	0	1	1	1	0	1	1	1	0	0	0	0	0

(5, 238)

✓, ✓✓,

Prediction output

	molecule_name	pIC50
0	CHEMBL133897	5.9330
1	CHEMBL336398	5.9883
2	CHEMBL131588	5.0166
3	CHEMBL130628	5.1887
4	CHEMBL130478	5.1194

[Download Predictions](#)

Made with Streamlit