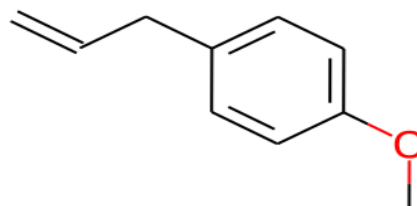


Molecule Input:

TotGroups: 5

[*'allylic_oxid'*, *'methoxy'*, *'benzCH2'*, *'Ar_OR'*, *'CH2_Terminal'*]



Structural Alers: f_SA38

LogP: 2.424

MaxPartialCharge: 0.118

MinPartialCharge: -0.497

NumHAcceptors: 1

NumHDonors: 0

NumRotatableBonds: 3

NumAliphaticRings: 0

NumAromaticCarbocycles: 1

NumAromaticHeterocycles: 0

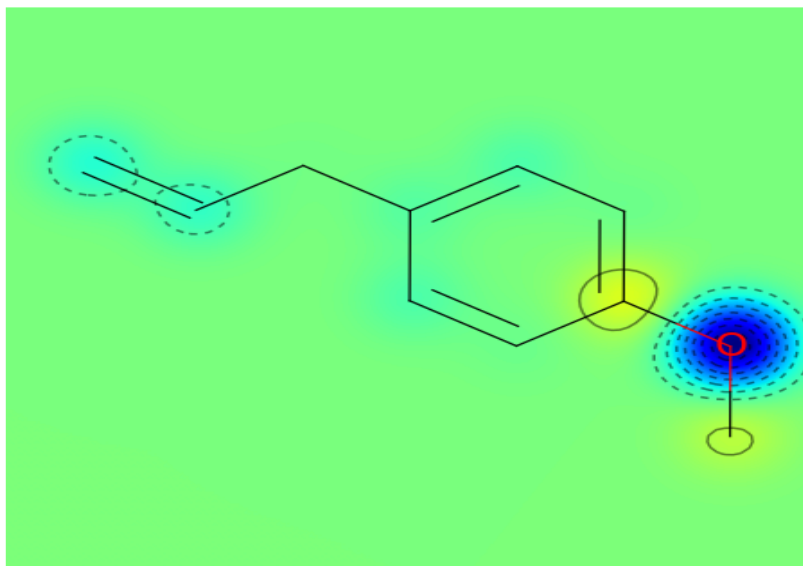
NumAromaticRings: 1

ExactMolWt: 148.089

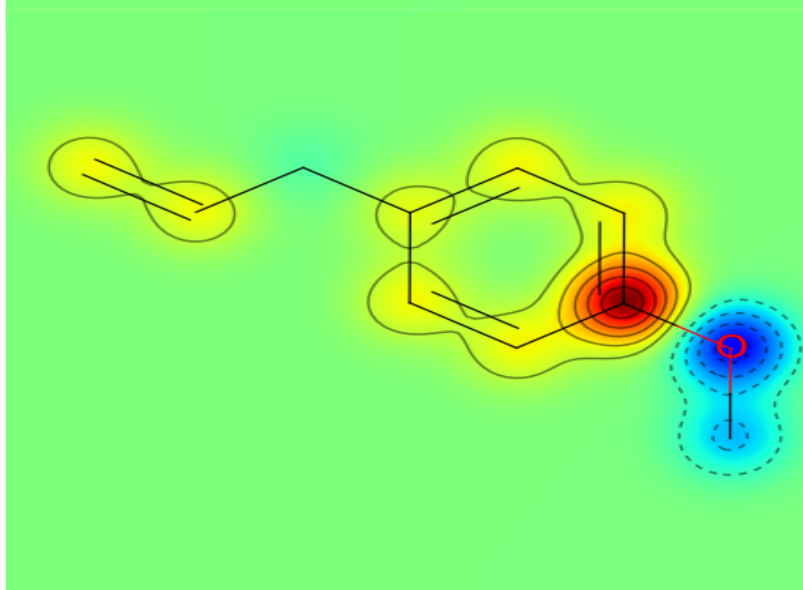
Experimental Value is known: Active

Prediction: Active***⁽⁵⁾

GasteigerCharges:



CrippenContribs:



Molecules with the highest group similarity

1) SMILES: C=CCc1ccc(OC)cc1

Class: Active

SimilarityVega: 1.0

SimilarityGrouping: 1.0

Grp_Similarity_Mean: 1.0

Groups in common: 5

TotGroups 5

GROUPS:

allylic_oxid Stat: Neutro

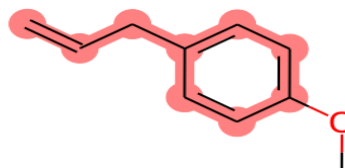
methoxy Stat: Neutro

benzCH2 Stat: Neutro

Ar_OR Stat: Neutro

CH2_Terminal Stat: Neutro

Alerts: ['f_SA38']



2) SMILES: C=CCc1ccc(O)c(OC)c1

Class: NON-Active

SimilarityVega: 0.896

SimilarityGrouping: 0.953

Grp_Similarity_Mean: 0.924

Groups in common: 5

TotGroups 8

GROUPS:

allylic_oxid Stat: Neutro

methoxy Stat: Neutro

phenol Stat: Neutro

phenol_noOrthoHbond Stat: Neutro

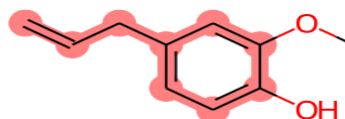
benzCH2 Stat: Neutro

Ar_OR Stat: Neutro

op_diphenolo_OR Stat: Neutro

CH2_Terminal Stat: Neutro

Alerts: ['f_SA38']



3) SMILES: C=CCc1ccc(OC)c(OC)c1

Class: Active

SimilarityVega: 0.896

SimilarityGrouping: 0.953

Grp_Similarity_Mean: 0.924

Groups in common: 5

TotGroups 8

GROUPS:

allylic_oxid Stat: Neutro

methoxy Stat: Neutro

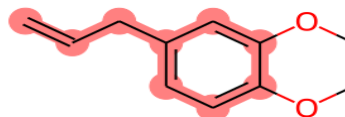
benzCH2 Stat: Neutro

Ar_OR Stat: Neutro

op_diphenolo_OR Stat: Neutro

CH2_Terminal Stat: Neutro

Alerts: ['f_SA38']



4) SMILES: C=CC(O)c1ccc(OC)cc1

Class: Active

SimilarityVega: 0.92

SimilarityGrouping: 0.769

Grp_Similarity_Mean: 0.844

Groups in common: 3

TotGroups 4

GROUPS:

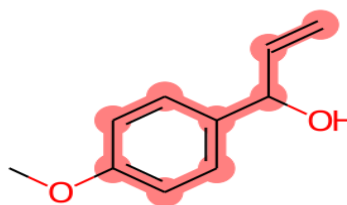
Al_OH Stat: Neutro

methoxy Stat: Neutro

Ar_OR Stat: Neutro

CH2_Terminal Stat: Neutro

Alerts: ['f_SA38']



5) SMILES: CC(=O)OC=CCc1ccc2c(c1)COC2

Class: Active

SimilarityVega: 0.732

SimilarityGrouping: 0.617

Grp_Similarity_Mean: 0.674

Groups in common: 2

TotGroups 6

GROUPS:

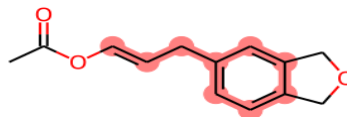
allylic_oxid Stat: Neutro

bicyclic Stat: Neutro

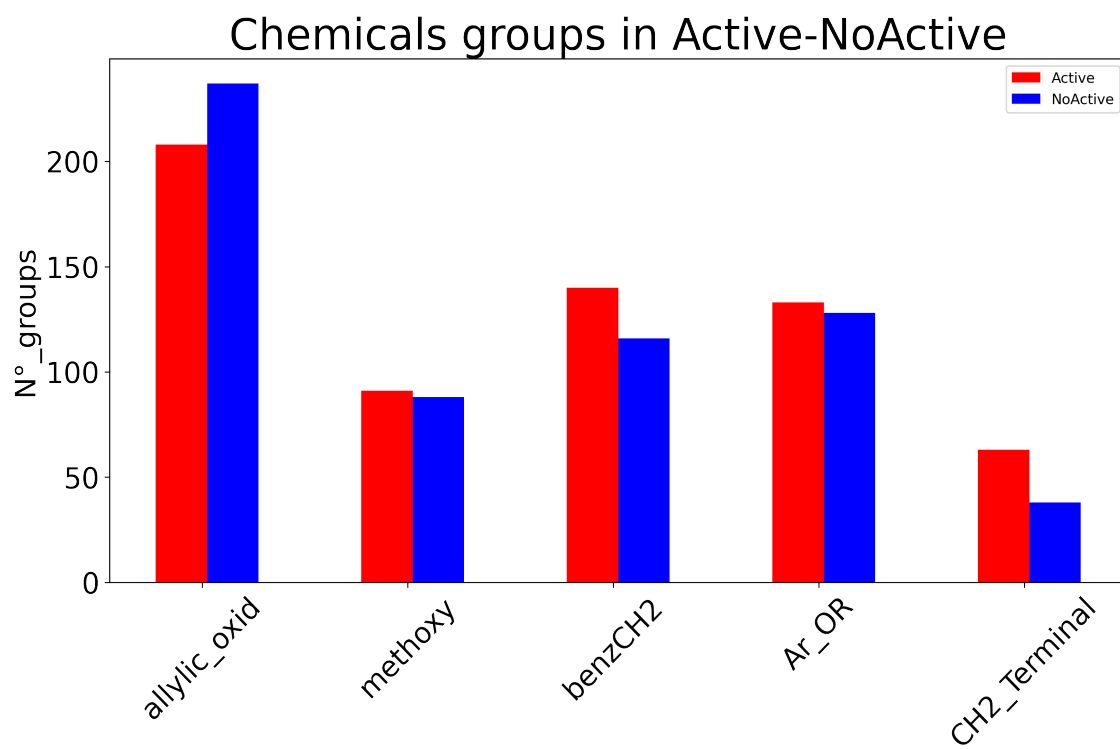
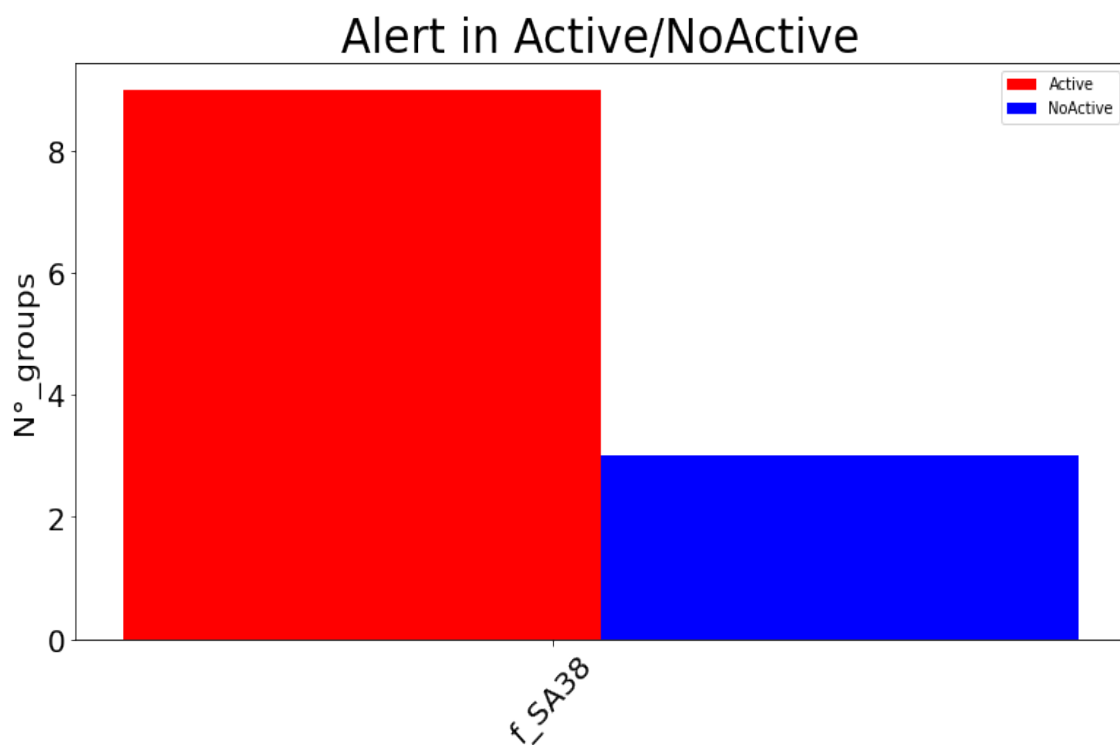
ester Stat: Neutro

benzCH2 Stat: Neutro

Alerts: ['f_SA38']



Molecule Input: Bar Chart for groups in dataset find in target



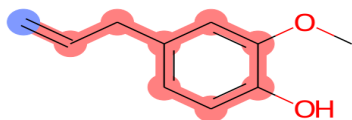
Reasoning

Orthogonal Research based on copresence of alerts ['f_SA38'] and GRP allylic_oxid

Smile: C=CCc1ccc(O)c(OC)c1

Class: NON-Active

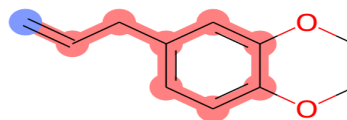
Similarity: 0.896



Smile: C=CCc1ccc(OC)c(OC)c1

Class: Active

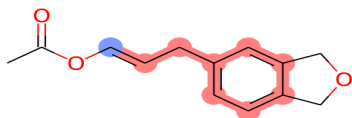
Similarity: 0.896



Smile: CC(=O)OC=CCc1ccc2c(c1)COC2

Class: Active

Similarity: 0.732



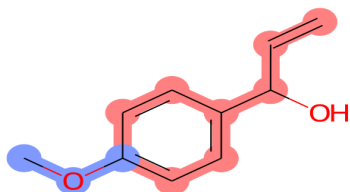
Reasoning

Orthogonal Research based on copresence of alerts ['f_SA38'] and GRP methoxy

Smile: C=CC(O)c1ccc(OC)cc1

Class: Active

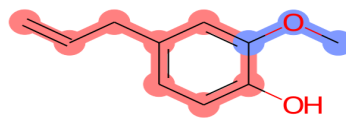
Similarity: 0.92



Smile: C=CCc1ccc(O)c(OC)c1

Class: NON-Active

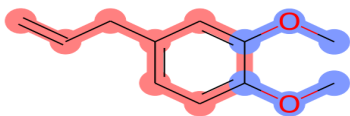
Similarity: 0.896



Smile: C=CCc1ccc(OC)c(OC)c1

Class: Active

Similarity: 0.896



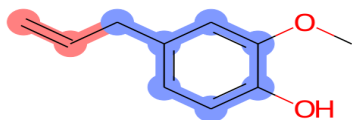
Reasoning

Orthogonal Research based on copresence of alerts ['f_SA38'] and GRP benzCH2

Smile: C=CCc1ccc(O)c(OC)c1

Class: NON-Active

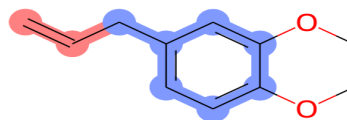
Similarity: 0.896



Smile: C=CCc1ccc(OC)c(OC)c1

Class: Active

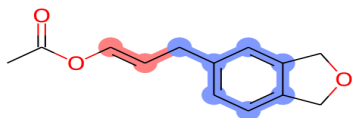
Similarity: 0.896



Smile: CC(=O)OC=CCc1ccc2c(c1)COC2

Class: Active

Similarity: 0.732



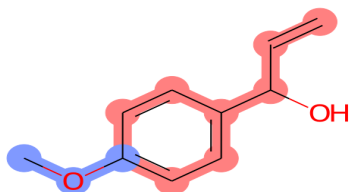
Reasoning

Orthogonal Research based on copresence of alerts ['f_SA38'] and GRP Ar_OR

Smile: C=CC(O)c1ccc(OC)cc1

Class: Active

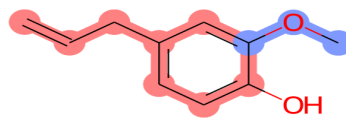
Similarity: 0.92



Smile: C=CCc1ccc(O)c(OC)c1

Class: NON-Active

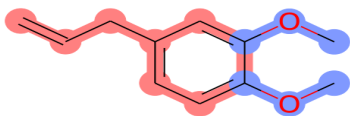
Similarity: 0.896



Smile: C=CCc1ccc(OC)c(OC)c1

Class: Active

Similarity: 0.896



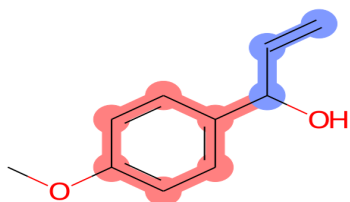
Reasoning

Orthogonal Research based on copresence of alerts ['f_SA38'] and GRP CH2_Terminal

Smile: C=CC(O)c1ccc(OC)cc1

Class: Active

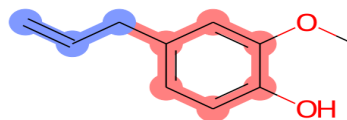
Similarity: 0.92



Smile: C=CCc1ccc(O)c(OC)c1

Class: NON-Active

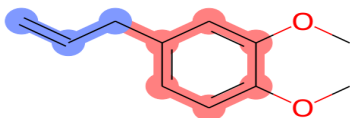
Similarity: 0.896



Smile: C=CCc1ccc(OC)c(OC)c1

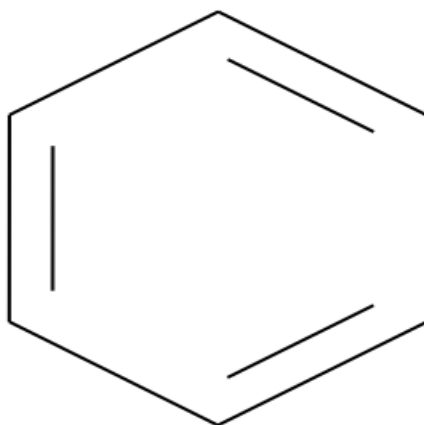
Class: Active

Similarity: 0.896

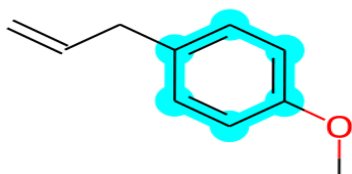


Scaffold

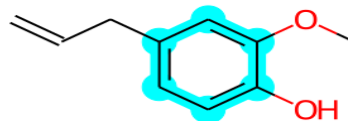
Scaffold analysis



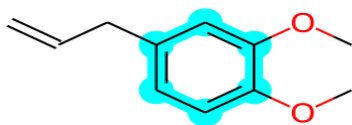
Smile: C=CCc1ccc(OC)cc1
Class: Active
Similarity: 1.0



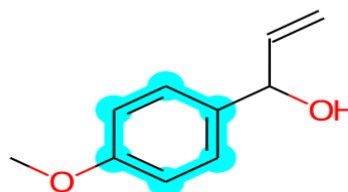
Smile: C=CCc1ccc(O)c(OC)c1
Class: NON-Active
Similarity: 0.896



Smile: C=CCc1ccc(OC)c(OC)c1
Class: Active
Similarity: 0.896



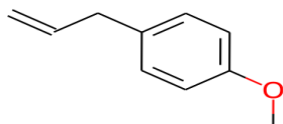
Smile: C=CC(O)c1ccc(OC)cc1
Class: Active
Similarity: 0.92



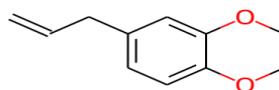
Descriptors

Calculator Similarity descriptor

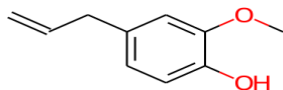
Smile: C=CCc1ccc(OC)cc1
 Class: Active
 DistanceCityBlock: 0.0
 LogP:2.4237
 MW: 148.088815004



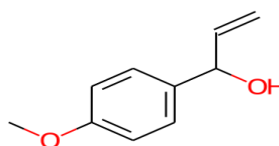
Smile: C=CCc1ccc(OC)c(OC)c1
 Class: Active
 DistanceCityBlock: 6.239
 LogP:2.4323000000000006
 MW: 178.099379688



Smile: C=CCc1ccc(O)c(OC)c1
 Class: NON-Active
 DistanceCityBlock: 6.718
 LogP:2.1292999999999997
 MW: 164.083729624



Smile: C=CC(O)c1ccc(OC)cc1
 Class: Active
 DistanceCityBlock: 6.884
 LogP:1.9145999999999999
 MW: 164.083729624



Smile: CC(=O)OC=CCc1ccc2c(c1)COC2
 Class: Active
 DistanceCityBlock: 14.436
 LogP:2.3361
 MW: 218.094294308

