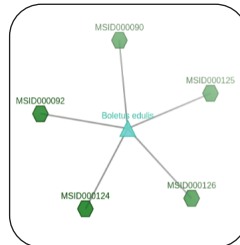
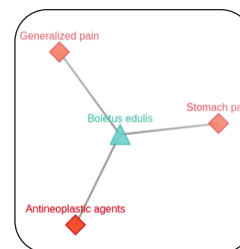


A photograph of a large, light-colored mushroom with a thick, textured cap and a dark, sturdy stem. It is growing on a forest floor covered with dry leaves and twigs. In the background, a large tree trunk is visible, and the scene is surrounded by lush green foliage.

Medicinal fungi	Secondary metabolite identifier	Secondary metabolite name	Reference
<i>Boletus edulis</i>	MSID000090	(1S)-[3-ethenyl(phenyl)-1,2-ethanediol]	PMID:17440922
<i>Boletus edulis</i>	MSID000092	(1S)-[4-acetyl(phenyl)-1,2-ethanediol]	PMID:17440922
<i>Boletus edulis</i>	MSID000124	1-[3-Ethylphenyl]-1,2-ethanediol	PMID:17440922
<i>Boletus edulis</i>	MSID000125	1-[3-Formylphenyl]-ethanone	PMID:17440922
<i>Boletus edulis</i>	MSID000126	1-[4-Ethylphenyl]-1,2-ethanediol	PMID:17440922



Medicinal fungi	Therapeutic use	Therapeutic use identifier	Reference
Boletus edulis	Antineoplastic agents	MESH:D000970, MESH:D009369; ICD-9:199.1, ICD-9:239.9, ICD-9:E933.1; DOID:162	PMID:30668382
Boletus edulis	Generalized pain	ICD-9:780.96	PMID:30668382
Boletus edulis	Stomach pain		PMID:30668382



Physicochemical filter
Drug-like filter
Chemical similarity filter

Molecular Weight

Choose here

LogP

Choose here

Topological Polar Surface Area (TPSA)

Choose here

Hydrogen Bond Acceptors (HBA)

Choose here

Hydrogen Bond Donors (HBD)

Choose here

Heavy Atoms

Choose here

Heteroatoms

Choose here

Number of Rings

Choose here

Rotatable Bonds

Choose here

Stereochemical Complexity

Choose here

Shape Complexity

Choose here

Search

Physicochemical filter

Drug-like filter

Chemical similarity filter

Lipinski RO5 Violation

Choose here

Ghose Rule Violation

Choose here

GSK 4/400

Choose here

Pfizer 3/75

Choose here

Veber Rule

Choose here

Egan Rule

Choose here

QEDw

Choose here

Search

Physicochemical filter

Drug-like filter

Chemical similarity filter

Enter SMILES

Choose Fingerprint

Search

Choose here

C[C@H](CCCC(=O)O)[C@@H]1CC[C@@H]2[C@@]1(CC[C@H]3[C@H]2CC=C4[C@@]3(CC[C@@H](C4)O)C)C

Property name	Tool	Property value
Molecular weight (g/mol)	RDKit	456.71
Log P	RDKit	7.54
Topological polar surface area (Å ²)	RDKit	57.53
Number of hydrogen bond acceptors	RDKit	2
Number of hydrogen bond donors	RDKit	2

Property name	Tool	Property value
Number of Lipinski's rule of 5 violations	RDKit	1
Lipinski's rule of 5 filter	RDKit	Passed
Number of Ghouse filter violations	RDKit	3
Ghouse filter	RDKit	Failed
Veber filter	RDKit	Good
Egan filter	RDKit	Bad
Pfizer's 3/75 filter	RDKit	Bad
GSK 4/400 filter	RDKit	Bad
Number of Leadlikeness violations	SwissADME	2
Weighted quantitative estimate of drug-likeness (QEDw) score	RDKit	0.42

Property name	Tool	Property value
Bioavailability score	SwissADME	0.85
Solubility class [ESOL]	SwissADME	Poorly soluble
Solubility class [SiloS-IT]	SwissADME	Poorly soluble
Blood Brain Barrier permeation	SwissADME	No
Gastrointestinal absorption	SwissADME	Low
Log K _p (Skin permeation, cm/s)	SwissADME	-3.78
Number of PAINS structural alerts	SwissADME	0
Number of Brenk structural alerts	SwissADME	1

Tool	Type	Descriptor	Description	Descriptor class	Result
PaDEL	2D	nAcid	Number of acidic groups. The list of acidic groups is defined by these SMARTS "S([OH1]-[C:5,P]=O)", "S([*]-[*](-[*])([*]))", "S([NH])(S(=O)=O)C(F)(F)F)", and "S([n1nncc1])" originally presented in JOELib	Acidic Group Count descriptor	1
PaDEL	2D	ALogP	Ghose-Crippen LogKow	ALOGP descriptor	3.3496
PaDEL	2D	ALogp2	Square of ALogP	ALOGP descriptor	11.2198
PaDEL	2D	AMR	Molar refractivity	ALOGP	135.1754

800

TYR