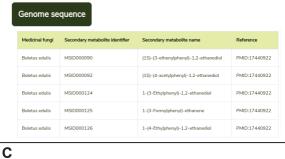
Boletus edulis

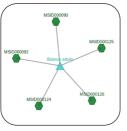


Family: Boletaceae

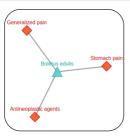
System of Traditional medicine: Traditional Chinese Medicine

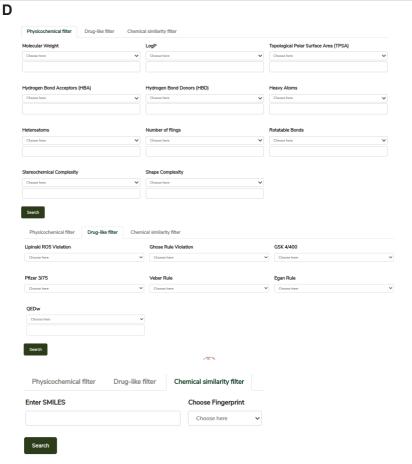
Reference: PMID:30668382, ISBN:1-57067-143-5





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





Secondary metabolite: Trametenolic acid B



Number of hydrogen bond donors

В

Molecular formula: C30H48O3

SMILES: CC[=CCC[C@H][[C@H]1CC[C@@]2[[C@]1(C)CCC1=C2CC[C@@H]2[C@]1(C)CC[C@@H] (C2(C)C)O)C)C(=0)O)C

InChl: InChl=15/C30H48O3/c1-19(2)9-8-10-20(26(32)33)21-13-17-30(7)23-11-12-24-27(3,4)25(31)15-16-28(24,5)22(23)14-18-29(21,30)6/h9,20-21,24-25,31H,8,10-18H2,1-7H3,

InChiKey: NBSBUIQBEPROBM-GIICLEHTSA-N

Chemical classification

Kingdom: Organic compounds

Class: Prenol lipids Sub class: Triterpenoids

acid, trametenolic acid b

External chemical identifiers:
CID_12309443; CAS_24160-36-9; NPATLAS_NPA011620; CHEMSPIDER_10193870

Chemical structure download







Property name	Tool	Property value
Aolecular weight (g/mol)	RDKit	456.71
og P	RDKit	7.54
opological polar surface area (Ų)	RDKit	57.53
Number of hydrogen bond acceptors	RDKit	2

Physicochemical properties

Drug-likeness properties

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 Ghose filter violations	RDKit	3
Ghose 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

ADMET properties

Property name	Tool	Property value
Bioavailability score	SwissADME	0.85
Solubility class [ESOL]	SwissADME	Poorly soluble
Solubility class [Silicos-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

Descriptors

Tool	Туре	Descriptor	Description	Descriptor class	Result
PaDEL	2D	nAcid	Number of acidic groups. The list of acidic groups is defined by these SMARTS " $S([0.H1]-[C.S.P]=0)$ ", " $S([":]S("-[".+]))$ ", " $S([NH](S(=0)=0)C(F)(F)F)$ ", and " $S(n1nnc1)$ " 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

Predicted human target proteins

