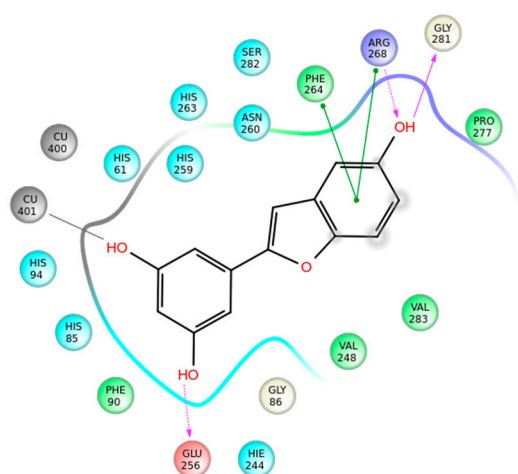


Supplementary Data

Table S1. Greek extracts that exhibited moderate and strong tyrosinase inhibition at initial concentration screens (300 µg/ml)

Plant species	Plant family	Plant part	Extraction solvent	% Tyrosinase inhibition
<i>Abies cephalonica</i>	Pinaceae	bark of stem and branches	MeOH	59
<i>Acantholimon androsaceum</i>	Plubaginaceae	aerial parts	MeOH	55
<i>Acanthus spinosus</i>	Acanthaceae	aerial parts	EtOAc	48
<i>Anthyllis montana</i>	Leguminosae	aerial parts	EtOAc	48
<i>Anthyllis montana</i>	Leguminosae	aerial parts	MeOH	46
<i>Arbutus unedo</i>	Ericaceae	stems and leaves	MeOH	50
<i>Arbutus unedo</i>	Ericaceae	stems and leaves	EtOAc	44
<i>Armeria canescens</i>	Plubaginaceae	aerial parts and roots	MeOH	76
<i>Calicotome villosa</i>	Leguminosae	aerial parts	MeOH	44
<i>Ceratonia siliqua</i>	Leguminosae	stems and leaves	MeOH	57
<i>Ceratonia siliqua</i>	Leguminosae	stems and leaves	EtOAc	44
<i>Cercis siliquastrum</i>	Leguminosae	aerial parts	MeOH	70
<i>Chamaecytisus austriacus</i>	Leguminosae	aerial parts	MeOH	46
<i>Chamaecytisus triflorus</i>	Leguminosae	aerial parts	MeOH	47
<i>Chamaecytisus triflorus</i>	Leguminosae	aerial parts	EtOAc	40
<i>Cistus creticus ssp. creticus</i>	Cistaceae	aerial parts	MeOH	63
<i>Cistus creticus ssp. eriocephalus</i>	Cistaceae	aerial parts	MeOH	58
<i>Cistus monspeliensis</i>	Cistaceae	aerial parts	MeOH	41
<i>Cistus parviflorus</i>	Cistaceae	aerial parts	MeOH	68
<i>Cistus salvifolius</i>	Cistaceae	aerial parts	MeOH	79
<i>Cistus salvifolius</i>	Cistaceae	aerial parts	EtOAc	71
<i>Cotinus coggygria (Rhus cotinus)</i>	Anacardiaceae	stems and leaves	MeOH	43
<i>Cupressus sempervirens (forma horizontalis)</i>	Cupressaceae	branches and leaves	EtOAc	47
<i>Cytisus villosus</i>	Leguminosae	aerial parts	MeOH	49
<i>Dorycnium hirsutum</i>	Leguminosae	aerial parts	MeOH	56
<i>Dorycnium hirsutum</i>	Leguminosae	aerial parts	EtOAc	44
<i>Eryngium amorginum</i>	Umbelliferae	aerial parts	EtOAc	56
<i>Genista depressa</i>	Leguminosae	aerial parts and roots	EtOAc	53
<i>Geranium macrorrhizum</i>	Geraniaceae	aerial parts and roots	MeOH	55
<i>Glycyrrhiza glabra</i>	Leguminosae	roots	MeOH	92
<i>Glycyrrhiza glabra</i>	Leguminosae	roots	EtOAc	82
<i>Heracleum sphondylium ssp. pyrenaicum</i>	Umbelliferae	aerial parts	EtOAc	43
<i>Hippocrepis comosa</i>	Leguminosae	aerial parts	MeOH	55
<i>Hippocrepis comosa</i>	Leguminosae	aerial parts	EtOAc	54

<i>Lathyrus clymenum</i>	Leguminosae	perisperm	MeOH	92
<i>Lathyrus clymenum</i>	Leguminosae	perisperm	EtOAc	59
<i>Mentha pulegium</i>	Lamiaceae	aerial parts	EtOAc	43
<i>Morus alba</i>	Moraceae	wood	MeOH	97
<i>Morus alba</i>	Moraceae	wood	EtOAc	83
<i>Myrtus communis</i>	Myrtaceae	aerial parts	MeOH	45
<i>Onobrychis alba ssp. laconica</i>	Leguminosae	aerial parts and roots	EtOAc	43
<i>Onobrychis peloponnesiaca</i>	Leguminosae	roots	EtOAc	42
<i>Paenia clusii ssp. clusii</i>	Paeoniaceae	aerial parts	MeOH	49
<i>Paenia mascula ssp. hellenica</i>	Paeoniaceae	aerial parts	MeOH	68
<i>Pinus nigra ssp. pallasiana</i>	Pinaceae	bark	MeOH	40
<i>Pistacia lentiscus</i>	Anacardiaceae	branches and leaves	MeOH	76
<i>Pistacia lentiscus</i>	Anacardiaceae	wood	MeOH	57
<i>Pistacia terebinthus</i>	Anacardiaceae	leaves and stems	MeOH	70
<i>Pistacia terebinthus</i>	Anacardiaceae	branches and leaves	MeOH	67
<i>Polygonum idaeum</i>	Leguminosae	aerial parts and roots	MeOH	59
<i>Saxifraga sp.</i>	Saxifragaceae	aerial parts and roots	MeOH	45
<i>Sedum sediforme</i>	Crassulaceae	aerial parts	MeOH	70
<i>Sinapis alba</i>	Cruciferae	aerial parts	EtOAc	41
<i>Umbilicus horizontalis</i>	Crassulaceae	aerial parts and roots	MeOH	81
<i>Veratrum album</i>	Liliaceae	aerial parts and roots	MeOH	78
<i>Veratrum album</i>	Liliaceae	aerial parts and roots	EtOAc	59



Supplementary Figure S1: Ligand Interaction Diagram of Low Energy Structure of Mushroom Tyrosinase in complex with **11**

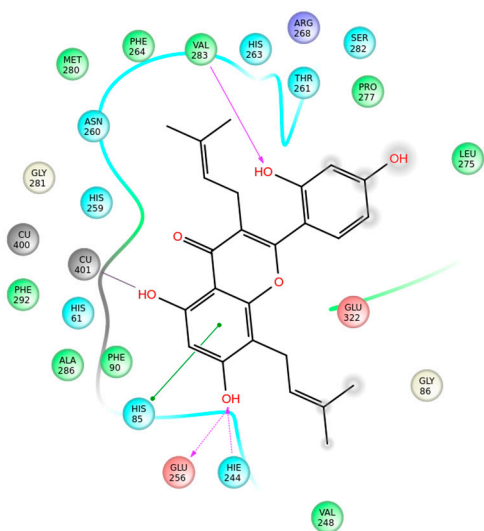


Figure S2: Ligand Interaction Diagram of Low Energy Structure of Mushroom Tyrosinase in complex with **2**

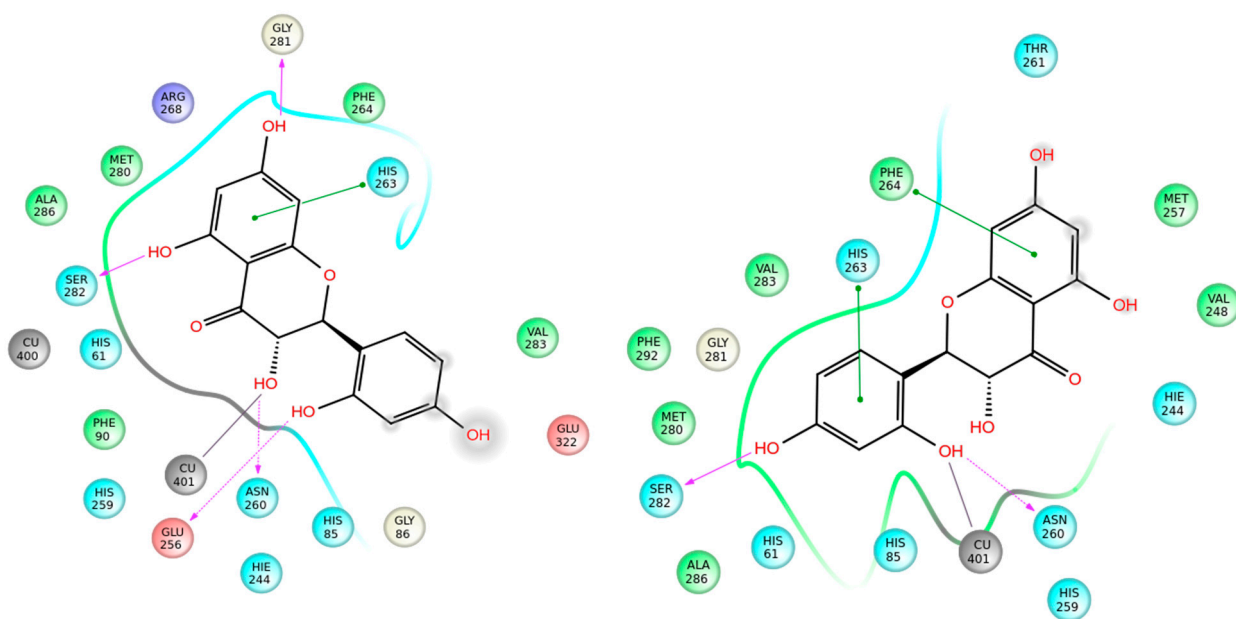


Figure S3: Ligand Interaction Diagram of Low Energy Structure of Mushroom Tyrosinase in complex with **6**, RR enantiomer (left) and SS enantiomer (right).