

Compound-Target_network data

| Compounds | Related target |
|------------------------|--|
| Scopoletin | Prostaglandin G/H synthase 1 |
| Scopoletin | Ribosyldihydronicotinamide dehydrogenase [quinone] |
| Scopoletin | Prostaglandin G/H synthase 2 |
| Scopoletin | Carbonic anhydrase 1 |
| Scopoletin | Beta-2 adrenergic receptor |
| Scopoletin | Leukotriene A-4 hydrolase |
| Scopoletin | Amine oxidase [flavin-containing] B |
| Scopoletin | Glutamate receptor 2 |
| Scopoletin | cAMP-dependent protein kinase catalytic subunit alpha |
| Scopoletin | Sodium-dependent noradrenaline transporter |
| Scopoletin | Queuine tRNA-ribosyltransferase |
| 4-Hydroxycinnamic acid | Prostaglandin G/H synthase 1 |
| 4-Hydroxycinnamic acid | Prostaglandin G/H synthase 2 |
| 4-Hydroxycinnamic acid | Amine oxidase [flavin-containing] B |
| 4-Hydroxycinnamic acid | Amine oxidase [flavin-containing] A |
| 4-Hydroxycinnamic acid | Lysozyme |
| 4-Hydroxycinnamic acid | Chymotrypsinogen B |
| 4-Hydroxycinnamic acid | Group IIE secretory phospholipase A2 |
| 4-Hydroxycinnamic acid | Nitric oxide synthase, endothelial |
| 4-Hydroxycinnamic acid | Tyrosinase |
| 4-Hydroxycinnamic acid | C-C motif chemokine 16 |
| Kaempferol | Nitric oxide synthase, inducible |
| Kaempferol | Prostaglandin G/H synthase 1 |
| Kaempferol | Androgen receptor |
| Kaempferol | Peroxisome proliferator-activated receptor gamma |
| Kaempferol | Prostaglandin G/H synthase 2 |
| Kaempferol | Heat shock protein HSP 90-alpha |
| Kaempferol | Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit |
| Kaempferol | cAMP-dependent protein kinase catalytic subunit alpha |
| Kaempferol | Nuclear receptor coactivator 2 |
| Kaempferol | Trypsin-1 |
| Kaempferol | Progesterone receptor |
| Kaempferol | Muscarinic acetylcholine receptor M1 |
| Kaempferol | Nitric-oxide synthase, endothelial |
| Kaempferol | Gamma-aminobutyric-acid receptor subunit alpha-2 |
| Kaempferol | Acetylcholinesterase |
| Kaempferol | Sodium-dependent noradrenaline transporter |
| Kaempferol | Muscarinic acetylcholine receptor M2 |
| Kaempferol | Alpha-1B adrenergic receptor |
| Kaempferol | Gamma-aminobutyric-acid receptor subunit alpha-1 |
| Kaempferol | DNA topoisomerase 2-alpha |

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| Kaempferol | Coagulation factor VII |
| Kaempferol | Calmodulin |
| Kaempferol | Transcription factor p65 |
| Kaempferol | Inhibitor of nuclear factor kappa-B kinase subunit beta |
| Kaempferol | RAC-alpha serine/threonine-protein kinase |
| Kaempferol | Apoptosis regulator Bcl-2 |
| Kaempferol | Apoptosis regulator BAX |
| Kaempferol | Tumor necrosis factor |
| Kaempferol | Transcription factor AP-1 |
| Kaempferol | Activator of 90 kDa heat shock protein ATPase homolog 1 |
| Kaempferol | Caspase-3 |
| Kaempferol | Mitogen-activated protein kinase 8 |
| Kaempferol | Xanthine dehydrogenase/oxidase |
| Kaempferol | Interstitial collagenase |
| Kaempferol | Signal transducer and activator of transcription 1-alpha/beta |
| Kaempferol | Cell division control protein 2 homolog |
| Kaempferol | Heme oxygenase 1 |
| Kaempferol | Cytochrome P450 3A4 |
| Kaempferol | Cytochrome P450 1A1 |
| Kaempferol | Intercellular adhesion molecule 1 |
| Kaempferol | E-selectin |
| Kaempferol | Vascular cell adhesion protein 1 |
| Kaempferol | Nuclear receptor subfamily 1 group I member 2 |
| Kaempferol | Cytochrome P450 1B1 |
| Kaempferol | Arachidonate 5-lipoxygenase |
| Kaempferol | Hyaluronan synthase 2 |
| Kaempferol | Aryl hydrocarbon receptor |
| Kaempferol | 26S proteasome non-ATPase regulatory subunit 3 |
| Kaempferol | Solute carrier family 2, facilitated glucose transporter member 4 |
| Kaempferol | Nuclear receptor subfamily 1 group I member 3 |
| Kaempferol | Insulin receptor |
| Kaempferol | Type I iodothyronine deiodinase |
| Kaempferol | Serine/threonine-protein phosphatase 2B catalytic subunit alpha |
| Kaempferol | Peroxidase C1A |
| Kaempferol | <u>Glutathione S-transferase Mu 1</u> |
| Kaempferol | Glutathione S-transferase Mu 2 |
| Kaempferol | Aldo-keto reductase family 1 member C3 |
| Kaempferol | Antileukoprotease |
| Quercetin | Prostaglandin G/H synthase 1 |
| Quercetin | Androgen receptor |
| Quercetin | Peroxisome proliferator-activated receptor gamma |
| Quercetin | Prostaglandin G/H synthase 2 |
| Quercetin | Heat shock protein HSP 90-alpha |

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| Quercetin | Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit |
| Quercetin | Nuclear receptor coactivator 2 |
| Quercetin | Aldose reductase |
| Quercetin | Trypsin-1 |
| Quercetin | DNA topoisomerase 2-alpha |
| Quercetin | Potassium voltage-gated channel subfamily H member 2 |
| Quercetin | Sodium channel protein type 5 subunit alpha |
| Quercetin | Coagulation factor X |
| Quercetin | Beta-2 adrenergic receptor |
| Quercetin | Stromelysin-1 |
| Quercetin | cAMP-dependent protein kinase catalytic subunit alpha |
| Quercetin | Coagulation factor VII |
| Quercetin | Nitric-oxide synthase, endothelial |
| Quercetin | Retinoic acid receptor RXR-alpha |
| Quercetin | Acetylcholinesterase |
| Quercetin | Gamma-aminobutyric-acid receptor subunit alpha-1 |
| Quercetin | Amine oxidase [flavin-containing] B |
| Quercetin | Transcription factor p65 |
| Quercetin | Epidermal growth factor receptor |
| Quercetin | RAC-alpha serine/threonine-protein kinase |
| Quercetin | G1/S-specific cyclin-D1 |
| Quercetin | Apoptosis regulator Bcl-2 |
| Quercetin | Bcl-2-like protein 1 |
| Quercetin | Proto-oncogene c-Fos |
| Quercetin | Cyclin-dependent kinase inhibitor 1 |
| Quercetin | Eukaryotic translation initiation factor 6 |
| Quercetin | Apoptosis regulator BAX |
| Quercetin | Caspase-9 |
| Quercetin | Urokinase-type plasminogen activator |
| Quercetin | 72 kDa type IV collagenase |
| Quercetin | Matrix metalloproteinase-9 |
| Quercetin | Mitogen-activated protein kinase 1 |
| Quercetin | Interleukin-10 |
| Quercetin | Retinoblastoma-associated protein |
| Quercetin | Tumor necrosis factor |
| Quercetin | Transcription factor AP-1 |
| Quercetin | Interleukin-6 |
| Quercetin | Cyclin-dependent kinase inhibitor 2A, isoforms 1/2/3 |
| Quercetin | Activator of 90 kDa heat shock protein ATPase homolog 1 |
| Quercetin | Caspase-3 |
| Quercetin | Cellular tumor antigen p53 |
| Quercetin | ETS domain-containing protein Elk-1 |
| Quercetin | NF-kappa-B inhibitor alpha |
| Quercetin | Ornithine decarboxylase |

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| Quercetin | Xanthine dehydrogenase/oxidase |
| Quercetin | Caspase-8 |
| Quercetin | DNA topoisomerase 1 |
| Quercetin | RAF proto-oncogene serine/threonine-protein kinase |
| Quercetin | Superoxide dismutase [Cu-Zn] |
| Quercetin | Protein kinase C alpha type |
| Quercetin | Interstitial collagenase |
| Quercetin | Hypoxia-inducible factor 1-alpha |
| Quercetin | Signal transducer and activator of transcription 1-alpha/beta |
| Quercetin | Protein CBFA2T1 |
| Quercetin | Probable E3 ubiquitin-protein ligase HERC5 |
| Quercetin | Cell division control protein 2 homolog |
| Quercetin | 78 kDa glucose-regulated protein |
| Quercetin | Receptor tyrosine-protein kinase erbB-2 |
| Quercetin | Acetyl-CoA carboxylase 1 |
| Quercetin | Heme oxygenase 1 |
| Quercetin | Cytochrome P450 3A4 |
| Quercetin | Caveolin-1 |
| Quercetin | Myc proto-oncogene protein |
| Quercetin | Tissue factor |
| Quercetin | Gap junction alpha-1 protein |
| Quercetin | Cytochrome P450 1A1 |
| Quercetin | Intercellular adhesion molecule 1 |
| Quercetin | Interleukin-1 beta |
| Quercetin | C-C motif chemokine ligand 2 |
| Quercetin | E-selectin |
| Quercetin | Vascular cell adhesion protein 1 |
| Quercetin | Prostaglandin E2 receptor, EP3 subtype |
| Quercetin | Interleukin-8 |
| Quercetin | Protein kinase C beta type |
| Quercetin | Baculoviral IAP repeat-containing protein 5 |
| Quercetin | Dual oxidase 2 |
| Quercetin | Nitric oxide synthase, endothelial |
| Quercetin | Heat shock protein beta-1 |
| Quercetin | Transforming growth factor beta-1 |
| Quercetin | Maltase-glucoamylase, intestinal |
| Quercetin | Interleukin-2 |
| Quercetin | Nuclear receptor subfamily 1 group I member 2 |
| Quercetin | Cytochrome P450 1B1 |
| Quercetin | G2/mitotic-specific cyclin-B1 |
| Quercetin | Tissue-type plasminogen activator |
| Quercetin | Thrombomodulin |
| Quercetin | Plasminogen activator inhibitor 1 |

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| Quercetin | Interferon gamma |
| Quercetin | Arachidonate 5-lipoxygenase |
| Quercetin | Phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase and dual |
| Quercetin | Interleukin-1 alpha |
| Quercetin | Myeloperoxidase |
| Quercetin | DNA topoisomerase 2-alpha |
| Quercetin | Neutrophil cytosol factor 1 |
| Quercetin | ATP-binding cassette sub-family G member 2 |
| Quercetin | Hyaluronan synthase 2 |
| Quercetin | Nuclear factor erythroid 2-related factor 2 |
| Quercetin | NAD(P)H dehydrogenase [quinone] 1 |
| Quercetin | Poly [ADP-ribose] polymerase 1 |
| Quercetin | Aryl hydrocarbon receptor |
| Quercetin | 26S proteasome non-ATPase regulatory subunit 3 |
| Quercetin | Solute carrier family 2, facilitated glucose transporter member 4 |
| Quercetin | Collagen alpha-1(III) chain |
| Quercetin | DNA gyrase subunit B |
| Quercetin | C-X-C motif chemokine 11 |
| Quercetin | C-X-C motif chemokine 2 |
| Quercetin | DDB1- and CUL4-associated factor 5 |
| Quercetin | Nuclear receptor subfamily 1 group I member 3 |
| Quercetin | Serine/threonine-protein kinase Chk2 |
| Quercetin | Insulin receptor |
| Quercetin | Claudin-4 |
| Quercetin | Peroxisome proliferator-activated receptor alpha |
| Quercetin | Peroxisome proliferator-activated receptor delta |
| Quercetin | Heat shock factor protein 1 |
| Quercetin | C-reactive protein |
| Quercetin | C-X-C motif chemokine 10 |
| Quercetin | Inhibitor of nuclear factor kappa-B kinase subunit alpha |
| Quercetin | Osteopontin |
| Quercetin | Runt-related transcription factor 2 |
| Quercetin | Ras association domain-containing protein 1 |
| Quercetin | Transcription factor E2F1 |
| Quercetin | Transcription factor E2F2 |
| Quercetin | Prostatic acid phosphatase |
| Quercetin | Cathepsin D |
| Quercetin | Insulin-like growth factor-binding protein 3 |
| Quercetin | Insulin-like growth factor II |
| Quercetin | CD40 ligand |
| Quercetin | Interferon regulatory factor 1 |
| Quercetin | Receptor tyrosine-protein kinase erbB-3 |
| Quercetin | Serum paraoxonase/arylesterase 1 |

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| Quercetin | Type I iodothyronine deiodinase |
| Quercetin | Procollagen C-endopeptidase enhancer 1 |
| Quercetin | Puromycin-sensitive aminopeptidase |
| Quercetin | Hexokinase-2 |
| Quercetin | Homeobox protein Nkx-3.1 |
| Quercetin | Ras GTPase-activating protein 1 |
| Quercetin | Peroxidase C1A |
| Quercetin | Glutathione S-transferase Mu 1 |
| Quercetin | Glutathione S-transferase Mu 2 |
| Ayapanin | Prostaglandin G/H synthase 1 |
| Ayapanin | Prostaglandin G/H synthase 2 |
| Ayapanin | Alpha-2A adrenergic receptor |
| Ayapanin | Sodium-dependent dopamine transporter |
| Ayapanin | Beta-2 adrenergic receptor |
| Ayapanin | Sodium-dependent serotonin transporter |
| Ayapanin | Leukotriene A-4 hydrolase |
| Ayapanin | Amine oxidase [flavin-containing] B |
| Ayapanin | Amine oxidase [flavin-containing] A |
| Ayapanin | cAMP-dependent protein kinase catalytic subunit alpha |
| Ayapanin | Muscarinic acetylcholine receptor M1 |
| Ayapanin | Alpha-1A adrenergic receptor |
| Ayapanin | cAMP-dependent protein kinase inhibitor alpha |

Gene

PTGS1

NQO2

PTGS2

CA1

ADRB2

LTA4H

MAOB

GRIA2

PRKACA

SLC6A2

QTRT1

PTGS1

PTGS2

MAOB

MAOA

LYZ

CTRB

PLA2G2E

NOS3

TYR

CCL16

NOS2

PTGS1

AR

PPARG

PTGS2

HSP90AA1

PIK3CG

PRKACA

NCOA2

PRSS1

PGR

CHRM1

NOS3

GABRA2

ACHE

SLC6A2

CHRM2

ADRA1B

GABRA1

TOP2A

F7
CALM
RELA
IKBKB
AKT1
BCL2
BAX
TNF
JUN
AHSA1
CASP3
MAPK8
XDH
MMP1
STAT1
CDC2
HMOX1
CYP3A4
CYP1A1
ICAM1
SELE
VCAM1
NR1I2
CYP1B1
ALOX5
HAS2
AHR
PSMD3
SLC2A4
NR1I3
INSR
DIO1
PPP3CA
PRXC1A
GSTM1
GSTM2
AKR1C3
SLPI
PTGS1
AR
PPARG
PTGS2
HSP90AA1

PIK3CG
NCOA2
AKR1B1
PRSS1
TOP2A
KCNH2
SCN5A
F10
ADRB2
MMP3
PRKACA
F7
NOS3
RXR4
ACHE
GABRA1
MAO-B
RELA
EGFR
AKT1
CCND1
BCL2
BCL2L1
FOS
CDKN1A
EIF6
BAX
CASP9
PLAU
MMP2
MMP9
MAPK1
IL10
RBI
TNF
JUN
IL6
CDKN2A
AHSA1
CASP3
TP53
ELK1
NFKB1A
ODC1

XDH
CASP8
TOP1
RAF1
SOD1
PRKCA
MMP1
HIF1A
STAT1
RUNX1T1
HERC5
CDC2
GRP78
ERBB2
ACACA
HMOX1
CYP3A4
CAV1
MYC
F3
GJA1
CYP11A1
ICAM1
IL1B
CCL2
SELE
VCAM1
PTGER3
CXCL8
PRKCB
BIRC5
DUOX2
NOS3
HSPB1
TGFB1
MGAM
IL2
NR1I2
CYP11B1
CCNB1
PLAT
THBD
SERPINE1

IFNG
ALOX5
PTEN
IL1A
MPO
TOP2A
NCF1
ABCG2
HAS2
NFE2L2
NQO1
PARP1
AHR
PSMD3
SLC2A4
COL3A1
GYRB
CXCL11
CXCL2
DCAF5
NR1I3
CHEK2
INSR
CLDN4
PPARA
PPARD
HSF1
CRP
CXCL10
CHUK
SPP1
RUNX2
RASSF1
E2F1
E2F2
ACP3
CTSD
IGFBP3
IGF2
CD40LG
IRF1
ERBB3
PON1

DIO1
PCOLCE
NPEPPS
HK2
NKX3-1
RASA1
PRXC1A
GSTM1
GSTM2
PTGS1
PTGS2
ADRA2A
SLC6A3
ADRB2
SLC6A4
LTA4H
MAOB
MAOA
PRKACA
CHRM1
ADRA1A
PKIA