DYSPNEA

(27th May, 2021)

S6K1 - inhibitor

Docking result

Decreasing Order

1. Naringenin-8.24
2. Taxifolin-7
3. Hesperidin-6.84
4. Chrysin-6.72
5. Myricetin-6.72
6. Daidzein-6.5
7. Homo-orientin-6.41
8. Galangin-6.32
9. Naringin-6.31
10. BetaGlucan-6.28
11. Oleocanthal-6.14
12. Diosmetin-6.09
13. Elenolic-6.05
14. Carvacrol-6.01
15. Hesperetin-5.8
16. Longifolene-5.64
17. Trans-Anethole-5.62
18. Gingerol-5.44
19. Terpineol-5.44
20. P-Cymene-5.36
21. Limonene-5.36
22. Ferulic acid-5.33
23. Lipoic acid-5.14
24. Glucosamine-5.12
25. Maslinic acid-4.97
26. Alpha-pinene-4.62
27. Beta-pinene-4.62
28. Alliin-4.41
29. Tangeretin-4.4
30. Deguelin-4.23
31. N acetylcysteine-3.88
32. Methyl butyrate-3.65
33. Ursolic acid-3.65
34. Allicin-3.61
35. Citronellol-3.52
36. Rutin-7.81
37. Kaempferol-7.61
38. Epigallocatechin gallate (EGCG)-7.19
39. Genistein-7.07
40. Apigenin-6.85
41. Rosmarinic-6.74
42. Fisetin-6.65
43. Luteolin-6.3
44. Quercetin-6.29
45. Curcumin-6.11
46. Resveratrol-5.79
47. Nobiletin-4.22
48. Oleanolic acid-3.92
49. Sulforaphane-3.36

STAT 3 Inhibitor: Apigenin, Epigallocatechin gallate Quercetin, Cardamonin, Licochalcone A Cucurbitacin B, Withaferin A, Berberine Silibinin Avicin D, Cucurbitacin, Honokiol Acetyl 11 keto B boswellic acid, Sanguarine, 3 3 diindolylmethane, Brevilin A, Celastrol, Oleanolic acid, Emodin, Indirubin, paclitaxel, Thymoquinone, Evodiamine, Betulinic acid, Caffeic acid, Cinnamon i.e. dalchani, Stattic, Resveratrol, Luteolin, Corosolic acid, Butein, Curcumin, Cryptotanshinone, Capsaicin, Acetyl-11-keto-beta-boswellic acid, Ursolic acid, Diosgenin

MEK1 Inhibitor: Zerumbone, Tetramethyl pyrazine, Gallic Acid, Punicalagin

Ras Inhibitor: Lupeol, EGCG, Quercetin

EGF Inhibitor: Curcumin, EGCG, Thymoquinone

PDGF Inhibitor: Piperine, Glucosamine, Diadzein, Apigenin, Kaempferol, Luteolin, Quercetin, Fisetin, Chrysin, Hesperdin, Naringenin, Resveratrol, Curcumin, Galangin, Epigallocatechin gallate (EGCG), Rutin, Beta Glucan, Taxifolin, Naringin, Diosmetin, Oleocanthal, Myricetin, Gingerol, Rosmarinic, Carvacrol, Genistein, Homo-orientin, Alliin, Hesperetin, Terpineol, Ferulic acid, N-acetylcysteine, Elenolic, Limonene, Allicin, P-Cymene, Deguelin, Ursolic acid, Tangeretin, Lipoic acid, Methyl butyrate, Nobiletin, Alpha-pinene, Beta-pinene, Sulforaphane, Maslinic acid, Citronellol, Oleonolic

Raf1 Inhibitor: Gingerol, Resveratrol, Oridonin, Quercetin, myricetin, cyanidins, Delphinidin, Krukovine, Rocaglamide

Adenosine 1 Receptor Inhibitor: Genistein, Hispidol, Tetramethyl Scutellarin, Agnuside, EGCG

IL 17 Inhibitor: Ursolic acid glucoside, Ursolic acid, Agnuside

Pyruvate kinase isoenzyme M2 Inhibitor: Barberine, Shikonin,

NADP Inhibitor: Emodin, EGCG, Resveratrol

Lactate dehydro genase Inhibitor: Myristicin

Vitamin B3 Activator: Tryptophan, Vitamin B2, Vitamin B6, Iron

PI3K Inhibitor: Gingerol, Curcumin, Diallyl disulfide, Emodin, Ginsenoside, Rhamnose, Honokiol, Parthenolide, Wogonin, Thymoquinone, Andrographolide, Resveratrol, Epigallocatechin 3 gallate, Quercetin, Fisetin, Luteolin, Icaritin, Apigenin, Indole 3 carbinol, sulforaphane, Phenethyl Isothiocyanate, Benzyl isothiyanate, Evodiamine, Ellagic acid, Piceatannolc

AKT Inhibitor: Curcumin, Alliin, N-acetylcysteine, Myricetin, Beta Glucan, Limonene, Terpineol, Ferulic acid, Allicin, Elenolic, Alpha-pinene, Luteolin, Beta-pinene, P-Cymene, Oleonolic, Deguelin, Nobiletin, Citronellol, Resveratrol, Epigallocatechin gallate (EGCG), Curcumin, Galangin, Diosmetin, Fistein, Naringenin, Naringin, Quercetin, Apigenin, Oleocanthal, Chrysin, Xanthorrhizol

ERK1 Inhibitor: Emodin, Apigenin, Silibinin, Oridonin, Genistein, Parthenolide, Honokiol, cyanidins, Gingerol 6, Berberine, Ellagic acid, Oxyresveratrol, shikonin, Sulforaphane, Silymarin, Lithospermum erythrorhizon (purple gromwell), Sulforaphane, Quercitrin, Curcumin

ERK2 Inhibitor: Apigenin, Silibinin, Oridonin, Genistein, Parthenolide, Honokiol, cyanidins, Berberine, Ellagic acid, Emodin

4EBP1 Inhibitor: Isothiocyanates

HIF-α Inhibitor: Apigenin, Quercetin, Vitexin, Deguelin, Chrysin, 4-o-methyl alpinumisoflavone, Curcumin

Adenosine Inhibitor: Polymethoxylated flavones, Cirsimaritin

Dopamine 1 receptor Inhibitor: False pepper tree, Licorice

RhoA Inhibitor: Asparagus racemosus

Acetylcholine Inhibitor: Vitamin C

Magnesium Inhibitor: Phosphorus, Calcium, Iron, Manganese, Zinc, Phytate, Polyphenols

Acetyl CoA Inhibitor: Punicalagin, Ellagic acid

A2AR Inhibitor: Caffeine

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Adenosine Inhibitor: Polymethoxy lated flavones, Cirsimaritin

Histamine Inhibitor: Zinc, Carvacrol, Magnesium, Isojacareubin, Copper, Vitamin C

PKA Inhibitor: Anthocyanin, Delphinidin, Emodin Delphinidin 3-O-Glucoside, Curcumin

cAMP Inhibitor: Isojacareubin

Gs alpha subunit Inhibitor: Suramin

H1R Inhibitor: Thymoquinone

H2R Inhibitor: Gingerol

IL 13 Inhibitor: Naringin, Kaempferol 3 O rhamnoside, Kaempferol

ß2AR Inhibitor: Clovamide, Ferulic acid Quercetin

Renin Inhibitor: Quercetin

Vitamin D Activator: Essential Fatty Acid, Piperine

Ang I Inhibitor: Quercetin, Luteolin, Apigenin, Rutin, Kaempferol

ACE 2 Inhibitor: Quercetin, Emodin

Angiotensin I Inhibitor: Silibinin, Luteolin, Quercetin, Rutin, Apigenin Kaempferol

Bradykinin Inhibitor: Machilin D

PLA2 Inhibitor: Arachidonic acid, Curcumin, Bromo phenacyl bromide, Masticadienolic, Morolic acid

COX1 Inhibitor: Eugenol, Apigenin, Quercetin

TRPA1 Inhibitor: Camphor, Menthol

Calcium Inhibitor: Magnesium, Phytate, Potassium, Caffeine, Phosphorus, Sodium

eNOS Activator: Methionine, Histidine, Ginsenoside Rg3

SERCA Activator: Schefflera kwangsiensis

Glutamate Inhibitor: Ginsenoside Rb 1

MLCK Inhibitor: Barberry

CamK Inhibitor: Labiatic acid

Histamine 1 receptor

Histamine 2 receptor

Surfactant protein D + **Signal regulatory protein alpha**

Ras related C3 botulinum toxin substrate 1 + GTPase

Inducible Nitric Oxide Synthase

Nitric Oxide

Beta 2 Adrenergic receptor

Angiotensinogen + **Renin**

Angiotensin converting enzyme 2

Bradykinin receptor B2

Cough and Airway Obstruction

Transient Receptor Potential Vanilloid 1 + **Transient Receptor Potential Ankyrin 1**

IL 25 — **Innate lymphoid cell type 2** — **IL 13** + **IL 4** — **C C Motif Chemokine Ligand 11** + **C C Motif Chemokine Ligand 13** + **C C Motif Chemokine Ligand 26** — **C C chemokine receptor type 3** — **Intercellular adhesion molecule 1** + **Vascular cell adhesion molecule 1** — **Eosinophil actionic protein** + **Erythropoeitin** + **Myelin basic protein**

ICAM-1 Inhibitor: Mangiferin, Gingerol, Curcumin, Casearinols A, Casearinols B

VCAM-1 Inhibitor: Manassantin A, Manassantin B, Shizukaol B, Alpha Iso cubebene, Euphol, Gingerol, Quercetin, Curcumin

Colony Stimulating Factor 2 Receptor Alpha Subunit + **Colony Stimulating Factor 2 Receptor Beta Subunit** — **Granulocyte macrophage colony stimulating factor** — **Signal Transducer and Activator of Transcription 5** — **Transcription Factor PU.1** / **Peroxisome proliferator activated receptor gamma** — **Differentiation of alveolar macrophage** — **Maturation of alveolar macrophage**

Acetyl CoA Carboxylase Activator: Vitamin B7- Biotin

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Glyceraldehyde 3 phosphate dehydrogenase Activator: Nicotinamide adenine dinucleotide, Nicotinamide adenine dinucleotide hydrogen

A2AR Activator: Gastrodia elata

Adenosine Activator: Ginseng, Resveratrol

ß2AR Activator: Clovamide

IL 1 Beta Inhibitor: Tectorigenin, Quercetin Epigallocatechin gallate, Resveratrol, Arvelexin, Total glucosides of peony, Arvelexin, Oridonin, Curcumin

TNF-α Inhibitor: Dopamine, Curcumin, Gingerol, Resveratrol, Galangin, Glucan, Betaine, Boswellic Acid, Quercetin, Epigallocatechin gallate, Diallyl disulfide, Kaempferol Cimiracemate A, Crocin, Dopamine, Gallic acid

DAG Activator: Ginger, Mulethi, Ziziphus jujube

LXR Inhibitor: Cinnamon i.e. dalchani

SP-1 Activator: Curcumin

TGF-ß Inhibitor: Epigallocatechin, Thymoquinone, Astragalin, Curcumin, Isorhamnetin, Platyconic acid, Elenolic, Epigallocatechin gallate, Silymarin, Emodin, Curcumin, Sulphorafane, Gallic acid, Naringin, Gingerol, Epigallocatechin 3 gallate, Rutin, Luteolin, Beta Glucan, Kaempferol, Naringenin, Genistein, Hesperetin, Rosmarinic, Taxifolin, Homo-orientin, Galangin, Carvacrol, Resveratrol, Chrysin, Apigenin, Diosmetin, Oleonolic, Oleocanthal, Terpineol, Maslinic acid, Tangeretin, Ursolic acid, Ferulic acid Glucosamine, Allicin, Alliin, Epigallocatechin gallate (EGCG), Longifolene, Lipoic acid, Limonene, Nobiletin, Trans-Anethole, Deguelin, Alpha-pinene, P-Cymene, Methyl butyrate, N-acetylcysteine, Citronellol, Gentiopicroside