**Supplementary Table 1. Therapeutic efficacy of the compounds absorbed in rat blood in the Shenqi Fuzheng (SQ) formula**

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| --- | --- | --- |
| **Promote cell differentiation, regeneration, and wound healing** | | |
| Compound | Effect | Reference |
| Calycosin-7-O-β-D-glucopyranoside | Stimulates osteoblast differentiation | 1 |
| Astragaloside I | Stimulates osteoblast differentiation | 2 |
| Astragaloside IV | Repair skin and promote angiogenesis and collagen synthesis | 3 |
| Astragaloside II | Promotes intestinal epithelial repair | 4 |
| Induces osteogenic activities of osteoblasts | 5 |
| Cyclocanthoside E | Promote growth in vitro and wound healing in vivo | 6 |
| **Enhance energy metabolism** | | |
| Compound | Effect | Reference |
| Calycosin-7-O-β-D-glucopyranoside | Attenuate palmitate-induced lipid accumulation in hepatocytes through activation of the energy metabolism pathway | 7 |
| Astragaloside II | Ameliorate mitochondrial dysfunction in diabetic rats | 8 |
| Astragaloside IV | Improves colitis by regulating energy metabolism | 9 |
| Isoastragaloside I | Increase the production of adiponectin and reduce insulin resistance and glucose intolerance in obese mice | 10 |
| **Resist inflammatory damage** | | |
| Compound | Effect | Reference |
| Calycosin-7-O-β-D-glucopyranoside | Alleviates osteoarthritis in rabbits | 11 |
| Lobetyolin | Protective effect on LPS-induced sepsis | 12 |
| Astragaloside IV | Alleviating colitis by remodeling macrophage polarization | 13 |
| Ferulic acid | LPS-induced neuroinflammation in mice | 14 |
| **Resist oxidative stress** | | |
| Compound | Effect | Reference |
| p-Coumaric Acid | Prevent colon cancer by eliminating free radicals through powerful antioxidant reactions | 15 |
| Ferulic acid | Inhibition of DOX-induced cardiotoxicity in rats | 16 |
| Astragaloside IV | Protects RGC-5 cells against oxidative stress | 17 |
| **Anti-tumor** | | |
| Compound | Effect | Reference |
| Astragaloside IV | Inhibits lung cancer progression and metastasis | 18 |
| Inhibit breast cancer cell invasion | 19 |
| Inhibit hepatocarcinogenesis | 20 |
| Astragaloside II | Inhibits autophagic flux and enhances the chemosensitivity of cisplatin in human cancer cells | 21 |
| Lobetyolin | Induce apoptosis of colon cancer cells by inhibiting glutamine metabolism | 22 |

DOX, doxorubicin; LPS, lipopolysaccharide; RGC, retinal ganglion cells.

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