| | active ingredients | ER-alpha (downregulation | aromatase inhibitor | 17ß-Estradiol degradation | sonst. (bioavailability) | MCF-7 (80-40 ER(alpha) ERß) Hormon-abh.(p53+/+ viability IC50 aqueous/water | chloroform | methanol/water ethanol/water | BT-20 IC50 aqueous/water | ⇑⇓ MD-MB-231 (ER-alpha-[ERß+]) Triple-neg IC50 aqueous/water | methanol/water | T-47D (33-67 ER(alpha)-ERß) P53 -/- | MDA-MB-453 | BT-474 | GI-101A | SKBR3 | Anti-Metastatic | Phase | Apoptosis (cytotoxisch) | Pathways intrinsic (mitochondrial-mediated) | p53 | Cytochrome c | p21/WAF1 CDK inhib. | p27/KIP CDK inhib. | p19 | Bax (induciert apoptosis) | BCL-2/-XXL (mit bax kontrolliert werden) | STAT3 (indu. VEGF) | PCNA (prolif.antigen) | cyclin D1 | cyclin E | cyclin A | CDK2 | CDK4 | CDK6 | TFDP1 | Ki67 | NF-kB ->COX-2 | AP-1 | HER/2-neu (PI3K/Akt) | extrinsic (death receptor-mediated) CD95 (FAS-death rec-receptor) | caspase 1 | caspase3 | pro Caspase 3 | caspase7 | caspase8 | caspase9 | wnt/ß-catenin ß-Catenin-Level | ERK½ | JNK | p38 | MAPK | CD44 | MUC1 | ROS | interferon-gamma | (p21) | TGFß (70) | rb |
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