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| <b>Product Name</b>      | : Secoisolariciresinol diglucoside B                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>          | : —                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Cat No.</b>           | : M34685                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>CAS Number</b>        | : 158932-33-3                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Formula</b> | : C <sub>32</sub> H <sub>46</sub> O <sub>16</sub>                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Formula Weight</b>    | : 686.704                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Chemical Name</b>     | : —                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>       | (R,R)-Secoisolariciresinol diglucoside ((R,R)-SDG) is the minor isomer of Secoisolariciresinol diglucoside in flaxseed. (R,R)-Secoisolariciresinol diglucoside ((R,R)-SDG) possesses antioxidant and free radical scavenging activities and DNA-radioprotective properties. (R,R)-Secoisolariciresinol diglucoside ((R,R)-SDG) inhibits myeloperoxidase (MPO) activity by suppressing both the peroxidase and chlorination cycles in inflammatory cells. |
| <b>Pathway</b>           | : Immunology/Inflammation                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Target</b>            | : ROS                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Receptor</b>          | : ROS                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Solubility</b>        | : In Vitro: ?DMSO : 100 mg/mL (145.62 mM; Ultrasonic )                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>SMILES</b>            | : <chem>COc1cc(CC(COC2OC(CO)C(O)C(O)C2O)C(COC2OC(CO)C(O)C(O)C2O)Cc2ccc(O)c(OC)c2)ccc1O</chem>                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage</b>           | : (-20°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Stability</b>         | : ≥ 2 years                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Reference</b>         | :                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

1. Mishra OP, et al. Novel synthetic (S,S) and (R,R)-secoisolariciresinol diglucosides (SDGs) protect naked plasmid and genomic DNA From gamma radiation damage. Radiat Res. 2014 Jul;182(1):102-10.?