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| <b>Product Name</b>      | : 3'-Hydroxypterostilbene                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>          | : 3'-HPT                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Cat No.</b>           | : M21458                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>CAS Number</b>        | : 475231-21-1                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Formula</b> | : C <sub>16</sub> H <sub>16</sub> O <sub>4</sub>                                                                                                                                                                                                                                                                                                                                          |
| <b>Formula Weight</b>    | : 272.29                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Chemical Name</b>     | : —                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>       | 3'-Hydroxypterostilbene a natural pterostilbene analogue effectively inhibits the growth of human colon cancer cells with IC <sub>50</sub> s of 9.0 40.2 and 70.9 μM for COLO 205 HCT-116 and HT-29 cells respectively by inducing apoptosis and autophagy. 3'-Hydroxypterostilbene inhibits the p38MAPK and PI3K/Akt/mTOR/p70S6K pathways and activates the ERK1/2 JNK1/2 MAPK pathways. |
| <b>Pathway</b>           | : Apoptosis                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Target</b>            | : Apoptosis                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Receptor</b>          | : Apoptosis                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Solubility</b>        | : DMSO:26 mg/mL (954.83 mM)                                                                                                                                                                                                                                                                                                                                                               |
| <b>SMILES</b>            | : <chem>COc1cc(/C=C/c(cc2)cc(O)c2O)cc(OC)c1</chem>                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage</b>           | : (-20°C)                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Stability</b>         | : ≥ 2 years                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Reference</b>         | :                                                                                                                                                                                                                                                                                                                                                                                         |

1.Cheng TC et al. Potent anti-cancer effect of 3'-hydroxypterostilbene in human colon xenograft tumors. PLoS One. 2014 Nov 12;9(11):e111814.