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| <b>Product Name</b>      | : Octenyl succinic anhydride                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>          | : —                                                                                                                                                                                                                                                                                                                                              |
| <b>Cat No.</b>           | : M36448                                                                                                                                                                                                                                                                                                                                         |
| <b>CAS Number</b>        | : 26680-54-6                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Formula</b> | : C <sub>12</sub> H <sub>18</sub> O <sub>3</sub>                                                                                                                                                                                                                                                                                                 |
| <b>Formula Weight</b>    | : 210.27                                                                                                                                                                                                                                                                                                                                         |
| <b>Chemical Name</b>     | : —                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>       | Octenyl succinic anhydride can be used to esterify Starch to yield a hydrocolloid with amphiphilic properties, octenyl succinylated starch (OS-starch). Octenyl succinic anhydride (OSA) modification affects interaction between molecules on the outer surfaces of two starch granules by altering molecular structures on the outer surfaces. |
| <b>Pathway</b>           | : Others                                                                                                                                                                                                                                                                                                                                         |
| <b>Target</b>            | : Other Targets                                                                                                                                                                                                                                                                                                                                  |
| <b>Receptor</b>          | : Others                                                                                                                                                                                                                                                                                                                                         |
| <b>Solubility</b>        | : In Vitro: ?DMSO : ≥ 250 mg/mL (1188.95 mM )                                                                                                                                                                                                                                                                                                    |
| <b>SMILES</b>            | : <chem>CCCCC/C=C/C1CC(=O)OC1=O</chem>                                                                                                                                                                                                                                                                                                           |
| <b>Storage</b>           | : (-20°C)                                                                                                                                                                                                                                                                                                                                        |
| <b>Stability</b>         | : ≥ 2 years                                                                                                                                                                                                                                                                                                                                      |
| <b>Reference</b>         | :                                                                                                                                                                                                                                                                                                                                                |

1. Wei Gao, et al. Synthetic mechanism of octenyl succinic anhydride modified corn starch based on shells separation pretreatment. Int J Biol Macromol. 2021 Mar 1;172:483–489.