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|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Name</b>      | : Cloprostenol sodium                                                                                                                                      |
| <b>Synonyms</b>          | : DL-Cloprostenol sodium; ICI 80996 sodium salt; Cloprostenol sodium salt                                                                                  |
| <b>Cat No.</b>           | : M20593                                                                                                                                                   |
| <b>CAS Number</b>        | : 55028-72-3                                                                                                                                               |
| <b>Molecular Formula</b> | : C <sub>22</sub> H <sub>28</sub> ClNaO <sub>6</sub> ??                                                                                                    |
| <b>Formula Weight</b>    | : 446.9                                                                                                                                                    |
| <b>Chemical Name</b>     | : sodium (Z)-7-(2-((E)-4-(3-chlorophenoxy)-3-hydroxybut-1-en-1-yl)-3,5-dihydroxycyclopentyl)hept-5-enoate                                                  |
| <b>Description</b>       | : Cloprostenol sodium is a more water soluble crystalline form of cloprostenol than the free acid is a synthetic analog of prostaglandin F <sub>2α</sub> . |
| <b>Pathway</b>           | : GPCR/G Protein                                                                                                                                           |
| <b>Target</b>            | : Prostaglandin Receptor                                                                                                                                   |
| <b>Receptor</b>          | : PGF <sub>2α</sub> receptor                                                                                                                               |
| <b>Solubility</b>        | : H <sub>2</sub> O: 150 mg/mL (335.65 mM)                                                                                                                  |
| <b>SMILES</b>            | : [Na+].OC(COc1cccc(Cl)c1)\C=C\C1C(O)CC(O)C1C=C/C/C=C/[O-]=O                                                                                               |
| <b>Storage</b>           | : (-20°C)                                                                                                                                                  |
| <b>Stability</b>         | : ≥ 2 years                                                                                                                                                |
| <b>Reference</b>         | :                                                                                                                                                          |

I. Salazar H Furr B J A Smith G K et al. Luteolytic Effects of a Prostaglandin Analogue Cloprostenol (ICI 80996) in Rats: Ultrastructural and Biochemical Observations[J]. Biology of Reproduction 1976 14(4):458.