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|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Name</b>      | : DPDPE TFA                                                                                                                                                                                      |
| <b>Synonyms</b>          | : —                                                                                                                                                                                              |
| <b>Cat No.</b>           | : M22974                                                                                                                                                                                         |
| <b>CAS Number</b>        | : 172888-59-4                                                                                                                                                                                    |
| <b>Molecular Formula</b> | : C30H39N5O7S2                                                                                                                                                                                   |
| <b>Formula Weight</b>    | : 645.79                                                                                                                                                                                         |
| <b>Chemical Name</b>     | : —                                                                                                                                                                                              |
| <b>Description</b>       | : DPDPE TFA is selective $\delta$ -opioid receptor agonist peptide. Inhibits electrically stimulated contraction of mouse vas deferens in vitro (EC50 = 5.2 nM), and is antinociceptive in vivo. |
| <b>Pathway</b>           | : Endocrinology/Hormones                                                                                                                                                                         |
| <b>Target</b>            | : Opioid Receptor                                                                                                                                                                                |
| <b>Receptor</b>          | : $\delta$ -opioid receptor                                                                                                                                                                      |
| <b>Solubility</b>        | : —                                                                                                                                                                                              |
| <b>SMILES</b>            | : <chem>O=C(O)C(F)(F)F.O=C([C@H](NC([C@H](CC1=CC=CC=C1)NC(CN2)=O)=O)C(C)(C)SSC(C)(C)[C@@H](NC([C@@H](N)CC3=CC=C(O)C=C3)=O)C2=O)O</chem>                                                          |
| <b>Storage</b>           | : (-20°C)                                                                                                                                                                                        |
| <b>Stability</b>         | : $\geq 2$ years                                                                                                                                                                                 |
| <b>Reference</b>         | :                                                                                                                                                                                                |

1. Chandrakumar et al (1992) Analogs of the  $\delta$  opioid receptor selective cyclic peptide [2-D-penicillamine,5-D-penicillamine]-enkephalin: 2',6'-dimethyltyrosine and Gly3-Phe4 amide bond isostere substitutions. J.Med.Chem.