

## Product Datasheet

### Dermorphin TFA (orb1299540)

<b>Catalog Number</b>	orb1299540
<b>Category</b>	Small Molecules
<b>Description</b>	Dermorphin TFA is a synthetic opioid peptide analog used in pharmacological research. It serves as a potent and selective $\mu$ -opioid receptor agonist, facilitating studies of analgesia, addiction, and neurobiology in both in vitro receptor assays and in vivo animal models.
<b>Target</b>	Opioid Receptor
<b>Purity</b>	>99.99% (May vary between batches)
<b>MW</b>	916.89
<b>Target Areas</b>	Opioid Receptor
<b>Solubility (25°C)</b>	H2O:127.5 mg/mL (139.06 mM);DMSO:10 mM
<b>CAS Number</b>	78331-26-7
<b>Formula</b>	C <sub>42</sub> H <sub>51</sub> F <sub>3</sub> N <sub>8</sub> O <sub>12</sub>
<b>SMILES</b>	<chem>C[C@@H](NC(=O)[C@@H](N)Cc1ccc(O)cc1)C(=O)N[C@@H](Cc1ccccc1)C(=O)NC(=O)N[C@@H](Cc1ccc(O)cc1)C(=O)N1CCC[C@H]1C(=O)N[C@@H](CO)C(N)=O.O=C(O)C(F)(F)F</chem>
<b>Storage</b>	keep away from moisture   Powder: -20°C for 3 years   In solvent: -80°C for 1 year   Shipping with blue ice/Shipping at ambient temperature.
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.

#### Biorbyt Ltd.

7 Signet Court, Swann Road  
Cambridge  
CB5 8LA  
United Kingdom

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: +44 (0)1223 859353 | Fax: +1 (415) 651-8558

#### Biorbyt LLC

68 TW Alexander Drive  
Research Triangle Park  
Durham  
NC 27713  
United States

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558