

## Product Datasheet

### 5-Hydroxy-1-methylhydantoin (orb1304974)

<b>Catalog Number</b>	orb1304974
<b>Category</b>	Small Molecules
<b>Description</b>	5-Hydroxy-1-methylhydantoin (HD-003) is a creatinine-derived antioxidant and hydroxyl radical scavenger studied for renal and vascular protection. Research indicates it suppresses high glucose-induced B2KR expression and attenuates bradykinin-driven MAPK/CTGF signaling in VSMCs, demonstrating potential in models of diabetic nephropathy and vascular remodeling.
<b>Target</b>	Reactive Oxygen Species,Bradykinin Receptor
<b>Purity</b>	99.99%
<b>MW</b>	130.1
<b>Target Areas</b>	Bradykinin Receptor ROS Reactive Oxygen Species
<b>Solubility (25°C)</b>	DMSO:60 mg/mL (461.18 mM)
<b>CAS Number</b>	84210-26-4
<b>Formula</b>	C <sub>4</sub> H <sub>6</sub> N <sub>2</sub> O <sub>3</sub>
<b>SMILES</b>	OC1N(C)C(=O)NC1=O
<b>Storage</b>	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

**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](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+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](tel:+1(415)906-5211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)