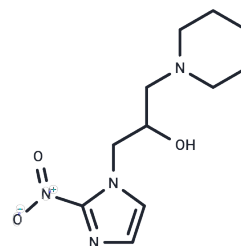


Pimonidazole

Chemical Properties

CAS No. :	70132-50-2
Formula:	C ₁₁ H ₁₈ N ₄ O ₃
Molecular Weight:	254.29
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Pimonidazole accumulates in hypoxic cells via covalent binding with macromolecules or by forming reductive metabolites after the reduction of its nitro group. It can be used for qualitative and quantitative assessment of tumor hypoxia. Pimonidazole is a novel hypoxia marker for the complementary study of tumor hypoxia and cell proliferation in tumors.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 60 mg/mL (235.95 mM), Sonication is recommended. H ₂ O: 1 mg/mL (3.93 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9325 mL	19.6626 mL	39.3252 mL
5 mM	0.7865 mL	3.9325 mL	7.865 mL
10 mM	0.3933 mL	1.9663 mL	3.9325 mL
50 mM	0.0787 mL	0.3933 mL	0.7865 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Varia MA, et al. Pimonidazole: a novel hypoxia marker for complementary study of tumor hypoxia and cell proliferation in cervical carcinoma. *Gynecol Oncol.* 1998 Nov;71(2):270-7.

Masaki Y, et al. Imaging Mass Spectrometry Revealed the Accumulation Characteristics of the 2-Nitroimidazole-Based Agent "Pimonidazole" in Hypoxia. *PLoS One.* 2016 Aug 31;11(8):e0161639.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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