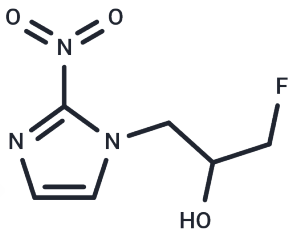
Data Sheet (Cat.No.T31825)

TargetMol

Fluoromisonidazole

Chemical Properties



CAS No. : 13551-89-8

Formula: C6H8FN3O3

Molecular Weight: 189.14

Storage: Keep away from direct sunlight
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	Fluoromisonidazole, a Radiation-Sensitizing Agent, can be used for imaging tumor hypoxia: imaging the microenvironment for personalized cancer therapy.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.2871 mL	26.4354 mL	52.8709 mL
5 mM	1.0574 mL	5.2871 mL	10.5742 mL
10 mM	0.5287 mL	2.6435 mL	5.2871 mL
50 mM	0.1057 mL	0.5287 mL	1.0574 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

Cui YL, Wang X, Li XF. (18)F-fluoromisonidazole PET reveals spatial and temporal heterogeneity of hypoxia in mouse models of human non-small-cell lung cancer. Future Oncol. 2015;11(20):2841-9. doi: 10.2217/fon.15.205. Epub 2015 Sep 11. PubMed PMID: 26361064.

Grkovski M, Schwartz J, Gönen M, Schöder H, Lee NY, Carlin SD, Zanzonico PB, Humm JL, Nehmeh SA. Feasibility of 18F-Fluoromisonidazole Kinetic Modeling in Head and Neck Cancer Using Shortened Acquisition Times. J Nucl Med. 2016 Mar;57(3):334-41. doi: 10.2967/jnumed.115.160168. Epub 2015 Nov 25. PubMed PMID: 26609178; PubMed Central PMCID: PMC4977990.

Rajendran JG, Krohn KA. F-18 fluoromisonidazole for imaging tumor hypoxia: imaging the microenvironment for personalized cancer therapy. Semin Nucl Med. 2015 Mar;45(2):151-62. doi: 10.1053/j.semnuclmed.2014.10.006. Review. PubMed PMID: 25704387; PubMed Central PMCID: PMC4339212.

Mateo J, Izquierdo-Garcia D, Badimon JJ, Fayad ZA, Fuster V. Noninvasive assessment of hypoxia in rabbit advanced atherosclerosis using ^{18}F-fluoromisonidazole positron emission tomographic imaging. Circ Cardiovasc Imaging. 2014 Mar;7(2):312-20. doi: 10.1161/CIRCIMAGING.113.001084. Epub 2014 Feb 7. PubMed PMID: 24508668; PubMed Central PMCID: PMC4083834.