

## Perfluorododecanoic acid

## Chemical Properties

CAS No. :	307-55-1
Formula:	C <sub>12</sub> HF <sub>23</sub> O <sub>2</sub>
Molecular Weight:	614.1
Storage:	Keep away from direct sunlight, Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Perfluorododecanoic acid (PFDoA) is a perfluoroalkyl substance (PFAS) identified in environmental samples such as lake trout tissue. Perfluorododecanoic acid reduces the viability of PC12 neuronal cells, elevates reactive oxygen species and malondialdehyde levels, and decreases mitochondrial membrane potential, collectively indicating its strong oxidative and mitochondrial toxicity, thereby highlighting its environmental and toxicological significance as a persistent organic pollutant.
Targets(IC50)	Reactive Oxygen Species, ROS

## Solubility Information

Solubility	DMSO: 4.5 mg/mL (7.33 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	1.6284 mL	8.142 mL	16.284 mL
5 mM	0.3257 mL	1.6284 mL	3.2568 mL
10 mM	0.1628 mL	0.8142 mL	1.6284 mL
50 mM	0.0326 mL	0.1628 mL	0.3257 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

Liu Y, et al. Induction of time-dependent oxidative stress and related transcriptional effects of perfluorododecanoic acid in zebrafish liver. *Aquat Toxicol.* 2008 Sep 29;89(4):242-50.

Furdui VI, et al. Spatial distribution of perfluoroalkyl contaminants in lake trout from the Great Lakes. *Environ Sci Technol.* 2007 Mar 1;41(5):1554-9.

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