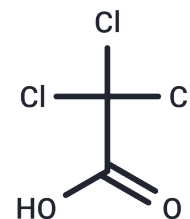


Trichloroacetic acid

Chemical Properties

CAS No. :	76-03-9
Formula:	C ₂ HCl ₃ O ₂
Molecular Weight:	163.39
Storage:	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	Trichloroacetic acid, commonly used for facial chemical resurfacing, is a metabolite of trichloroethylene, believed to contribute to its hepatocarcinogenic effects in mice.
Targets(IC50)	Others,Endogenous Metabolite
In vitro	Trichloroacetic acid (TCA), a prevalent byproduct of drinking water disinfection, induces a range of liver effects in mice, such as hepatomegaly and liver tumors. Additionally, it serves as an oxidative metabolite of trichloroethylene (TCE), a commonly used degreasing solvent subject to extensive environmental exposure, similarly resulting in hepatomegaly and liver tumors in mice[3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.1203 mL	30.6016 mL	61.2033 mL
5 mM	1.2241 mL	6.1203 mL	12.2407 mL
10 mM	0.612 mL	3.0602 mL	6.1203 mL
50 mM	0.1224 mL	0.612 mL	1.2241 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

Herbig K, et al. Combination Jessner's solution and trichloroacetic acid chemical peel: technique and outcomes. *Plast Reconstr Surg.* 2009;124(3):955-964.

Stenner RD, et al. Enterohepatic recirculation of trichloroethanol glucuronide as a significant source of trichloroacetic acid. *Metabolites of trichloroethylene. Drug Metab Dispos.* 1997;25(5):529-535.

Chiu WA. Trichloroacetic acid: updated estimates of its bioavailability and its contribution to trichloroethylene-induced mouse hepatomegaly. *Toxicology.* 2011;285(3):114-125.

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