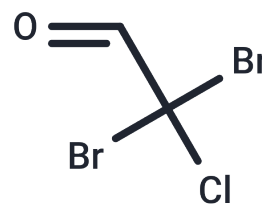


Dibromochloroacetaldehyde

Chemical Properties

CAS No. :	64316-11-6
Formula:	C ₂ HBr ₂ ClO
Molecular Weight:	236.29
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	Dibromochloroacetaldehyde, a trihalogenated acetaldehyde compound, is present as a byproduct in drinking water. It exhibits genotoxic properties.
Targets(IC50)	Others
In vitro	The cytotoxicity of haloacetaldehydes (HAL) is ranked as follows: tribromoacetaldehyde (TBAL) \approx chloroacetaldehyde (CAL) > dibromoacetaldehyde (DBAL) \approx bromochloroacetaldehyde (BCAL) \approx dibromochloroacetaldehyde (DBCAL) > iodoacetaldehyde (IAL) > bromoacetaldehyde (BAL) \approx bromodichloroacetaldehyde (BDCAL) > dichloroacetaldehyde (DCAL) > trichloroacetaldehyde (TCAL). Compared to other disinfection byproduct (DBP) chemical classes, HALs exhibit significantly higher cytotoxicity. In terms of genotoxicity, the sequence is DBAL > CAL \approx DBCAL > TBAL \approx BAL > BDCAL > BCAL \approx DCAL > IAL[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.2321 mL	21.1604 mL	42.3209 mL
5 mM	0.8464 mL	4.2321 mL	8.4642 mL
10 mM	0.4232 mL	2.116 mL	4.2321 mL
50 mM	0.0846 mL	0.4232 mL	0.8464 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

Gao J, et al. Occurrence and spatio-temporal variability of halogenated acetaldehydes in full-scale drinking water systems. Sci Total Environ. 2019;693:133517.

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