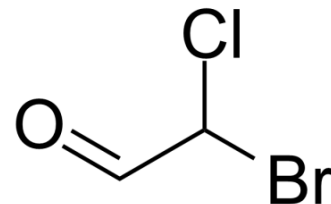


Bromochloroacetaldehyde

Cat. No.:	HY-133648
CAS No.:	98136-99-3
Molecular Formula:	C ₂ H ₂ BrClO
Molecular Weight:	157.39
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Bromochloroacetaldehyde belongs to dihalogenated acetaldehyde and is a byproduct in drinking water. Bromochloroacetaldehyde has genotoxicity ^[1] .
In Vitro	The rank order of HAL cytotoxicity is tribromoacetaldehyde (TBAL)≈chloroacetaldehyde (CAL)>dibromoacetaldehyde (DBAL)≈bromochloroacetaldehyde (BCAL)≈ dibromochloroacetaldehyde (DBCAL)>IAL>bromoacetaldehyde (BAL)≈ bromodichloroacetaldehyde (BDCAL)>dichloroacetaldehyde (DCAL)> trichloroacetaldehyde (TCAL). The HALs were highly cytotoxic compared to other DBP chemical classes. The rank order of HAL genotoxicity is DBAL>CAL≈DBCAL>TBAL≈BAL>BDCAL>BCAL≈DCAL>IAL ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

Caution: Product has not been fully validated for medical applications. For research use only.

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