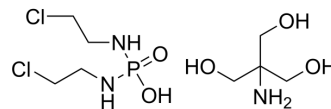


## Palifosfamide tromethamine

Cat. No.:	HY-114577
CAS No.:	1070409-31-2
Molecular Formula:	C <sub>8</sub> H <sub>22</sub> Cl <sub>2</sub> N <sub>3</sub> O <sub>5</sub> P
Molecular Weight:	342.16
Target:	DNA Alkylator/Crosslinker
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Palifosfamide (tromethamine) is a synthetic alkylating agent with potential antineoplastic activity. As the stabilized active metabolite of ifosfamide, palifosfamide (tromethamine) irreversibly alkylates and crosslinks DNA through GC base pairs. This leads to an inhibition of DNA replication and ultimately cell death. Compared to ifosfamide, palifosfamide (tromethamine) is less toxic.

### CUSTOMER VALIDATION

- Acta Pharmacol Sin. 2021 Jan;42(1):108-114.
- J Mol Med (Berl). 2019 Aug;97(8):1183-1193.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

[1]. Jones B, Komarnitsky P, Miller GT, Amedio J, Wallner BP. Anticancer activity of stabilized palifosfamide in vivo: schedule effects, oral bioavailability, and enhanced activity with docetaxel and doxorubicin. *Anticancer Drugs*. 2012;23(2):173-184.

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

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