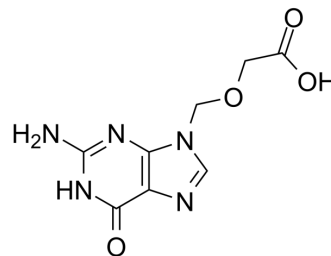


9-Carboxymethoxymethylguanine

Cat. No.:	HY-137181
CAS No.:	80685-22-9
Molecular Formula:	C ₈ H ₉ N ₅ O ₄
Molecular Weight:	239.19
Target:	HSV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	9-Carboxymethoxymethylguanine is the main metabolite of Acyclovir. Acyclovir (Aciclovir) is a guanosine analogue and an orally active antiviral agent ^[1] .
In Vitro	Acyclovir is metabolized by the alcohol dehydrogenase (ADH) enzyme to Acyclovir aldehyde, and acyclovir aldehyde is subsequently metabolized by the aldehyde dehydrogenase (ALDH) enzyme to 9-Carboxymethoxymethylguanine (CMMG) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Patrino Gunness, et al. Acyclovir-induced nephrotoxicity: the role of the acyclovir aldehyde metabolite. *Transl Res.* 2011 Nov;158(5):290-301.

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

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