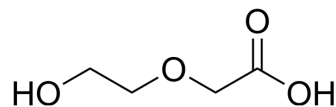


(2-Hydroxyethoxy)acetic acid

Cat. No.:	HY-134611
CAS No.:	13382-47-3
Molecular Formula:	C ₄ H ₈ O ₄
Molecular Weight:	120.1
Target:	Drug Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(2-Hydroxyethoxy)acetic acid (β -hydroxyethoxyacetic acid) is the main urinary metabolite of 1,4-Dioxane. (2-Hydroxyethoxy)acetic acid is a reliable and sensitive shortterm biomarker in urine ^[1] .
In Vitro	(2-Hydroxyethoxy)acetic acid (HEAA) exists in a pH-dependent equilibrium with the cyclic lactone dioxan-2-one, whereby the open-chain form of (2-Hydroxyethoxy)acetic acid is found to be stable under acidic conditions ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	The main metabolic pathway of 1,4-Dioxane is oxidized by cytochrome P450 monooxygenase to (2-Hydroxyethoxy)acetic acid (β -hydroxyethoxyacetic acid; HEAA), which is then rapidly excreted in urine ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Elisabeth Eckert, et al. Reliable quantitation of β -hydroxyethoxyacetic acid in human urine by an isotope-dilution GC-MS procedure. J Chromatogr B Analyt Technol Biomed Life Sci. 2013 Sep 15;935:80-4.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA