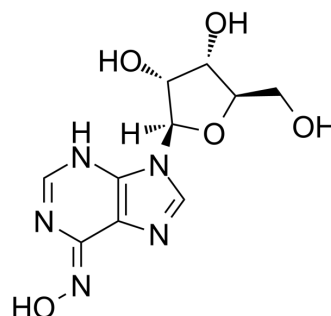


Inosine oxime

Cat. No.:	HY-118793
CAS No.:	3414-62-8
Molecular Formula:	C ₁₀ H ₁₃ N ₅ O ₅
Molecular Weight:	283.24
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Inosine oxime (6-Hydroxyadenosine) is an endogenous metabolite in the course of cell metabolism by cytochrome P450, by oxidative stress or by deviating nucleotide biosynthesis. Inosine oxime has toxic and mutagenic for procaryotic and eucaryotic cells ^{[1][2]} .
In Vitro	Inosine oxime (6-Hydroxyadenosine) (1-5 nM) has reductive detoxication through direct dehydroxylation catalyzed by adenosine deaminase to inosine and decreases inosine formation by 35% with knockdown of mARC1 in HEK-293. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Plitzko B, et, al. The pivotal role of the mitochondrial amidoxime reducing component 2 in protecting human cells against apoptotic effects of the base analog N6-hydroxylaminopurine. *J Biol Chem.* 2015 Apr 17;290(16):10126-35.
- [2]. Krompholz N, et, al. The mitochondrial Amidoxime Reducing Component (mARC) is involved in detoxification of N-hydroxylated base analogues. *Chem Res Toxicol.* 2012 Nov 19;25(11):2443-50.

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