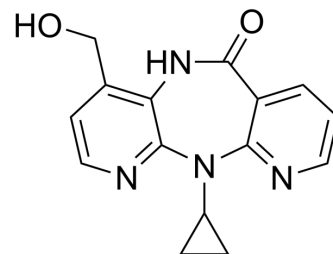


## 12-Hydroxynevirapine

Cat. No.:	HY-148642
CAS No.:	133627-24-4
Molecular Formula:	C <sub>15</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub>
Molecular Weight:	282.3
Target:	Drug Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

12-Hydroxynevirapine (12-hydroxy-NVP; 12-OH-NVP) is a major oxidative metabolite of Nevirapine (HY-10570). Nevirapine is a non-nucleoside reverse transcriptase inhibitor indicated for the HIV-1 infections. Nevirapine causes idiosyncratic hepatotoxicity and mild-to-severe skin rashes. 12-Hydroxynevirapine, a non-reactive metabolite, can be bioactivated by sulphotransferases (SULTs) in the liver and skin, yielding the reactive species 12-Sulphoxy-nevirapine<sup>[1][2]</sup>.

### REFERENCES

- [1]. Amy M Sharma, et al. 12-OH-nevirapine sulfate, formed in the skin, is responsible for nevirapine-induced skin rash. *Chem Res Toxicol.* 2013 May 20;26(5):817-27.
- [2]. Aline T Marinho, et al. Differences in nevirapine biotransformation as a factor for its sex-dependent dimorphic profile of adverse drug reactions. *J Antimicrob Chemother.* 2014 Feb;69(2):476-82.

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

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