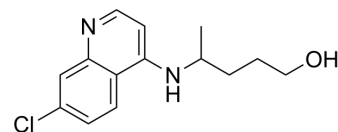


## Hydroxychloroquine Impurity E

Cat. No.:	HY-131262
CAS No.:	10500-64-8
Molecular Formula:	C <sub>14</sub> H <sub>17</sub> ClN <sub>2</sub> O
Molecular Weight:	264.75
Target:	SARS-CoV; Toll-like Receptor (TLR)
Pathway:	Anti-infection; Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Hydroxychloroquine Impurity E is the impurity of Hydroxychloroquine. Hydroxychloroquine is a synthetic antimalarial agent which can also inhibit Toll-like receptor 7/9 (TLR7/9) signaling. Hydroxychloroquine efficiently inhibits SARS-CoV-2 infection in vitro<sup>[1][2][3]</sup>.

### REFERENCES

- [1]. Manzo C, et al. Psychomotor Agitation Following Treatment with Hydroxychloroquine. Drug Saf Case Rep. 2017 Dec;4(1):6.
- [2]. Lamphier M, et al. Novel small molecule inhibitors of TLR7 and TLR9: mechanism of action and efficacy in vivo. Mol Pharmacol. 2014 Mar;85(3):429-40.
- [3]. Yao X, et al. In Vitro Antiviral Activity and Projection of Optimized Dosing Design of Hydroxychloroquine for the Treatment of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2). Clin Infect Dis. 2020 Mar 9. pii: ciaa237.

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

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