# biogens A PeproTech Brand

## Hydroxychloroquine sulfate

### Catalogue Number : 7473646

RUO: For Research Use Only. Not for use in diagnostic procedures.

#### **Product Information**

Synonyms: Hydroxychlorochin, Oxychloroquine, Plaquenil, HCQ sulfate Chemical Name: 2-[4-[(7-chloroquinolin-4-yl)amino]pentyl-ethylamino]ethanol;sulfuric acid Molecular Formula: C18 H26 CIN 3O H 2SO4 Molecular Weight: 434.0 CAS Number: 747-36-4 Purity: 95% Applications: FA Formulation: Crystalline solid

#### Description

Hydroxychloroquine sulfate is a synthetic quinolyl derivative that is commonly used as an antimalarial agent. It is reported to increase lysosomal pH in antigen presenting cells, inhibit autophagy and block toll-like receptors on plasmacytoid dendritic cells (PDCs). Hydroxychloroquine sulfate reduces the activation of dendritic cells and the inflammatory process. It is currently being researched as a potential treatment for COVID-19.

#### **Preparation & Storage**

Soluble in organic solvents such as ethanol and DMSO. It is soluble in PBS up to 5mg/ml.

#### References

1.Ben-Zvi, I., Kivity, S., Langevitz, P., Shoenfeld, Y. (2012). Hydroxychloroquine: from malaria to autoimmunity. Clinical reviews in allergy immunology, 42(2), 145-153.

2. Gao, J., Tian, Z., Yang, X. (2020). Breakthrough: Chloroquine phosphate has shown apparent efficacy in treatment of COVID-19 associated pneumonia in clinical studies.BioScience Trends.

3. Torigoe, M., Sakata, K., Ishii, A., Iwata, S., Nakayamada, S., Tanaka, Y. (2018). Hydroxychloroquine efficiently suppresses inflammatory responses of human class-switched memory B cells via Toll-like receptor 9 inhibition.Clinical Immunology,195, 1-7.

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