

# Product Datasheet

## Chloroquine Inhibitor NBP2-29386-25g

Unit Size: 25 g

Store at 4C in the dark.

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**NBP2-29386-25g**

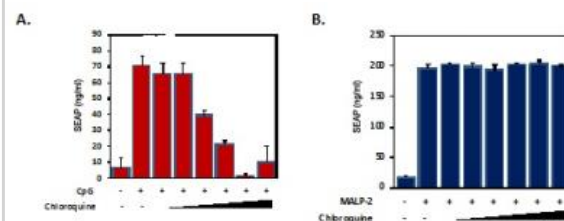
Chloroquine Inhibitor

| <b>Product Information</b>         |   |
|------------------------------------|---|
| <b>Unit Size</b>                   | 25 g  |
| <b>Concentration</b>               | Concentration is not relevant for this product. Please see the protocols for proper use of this product.  |
| <b>Storage</b>                     | Store at 4C in the dark.  |
| <b>Buffer</b>                      | Solubility:Deionized water<br>Form : White Solid (Powder)   |
| <b>Product Description</b>         |   |
| <b>Immunogen</b>                   | CAS Number 50-63-5<br>Empirical Formula (Hill Notation) C <sub>18</sub> H <sub>26</sub> ClN <sub>3</sub> . 2H <sub>3</sub> PO <sub>4</sub><br>Molecular Weight 515.86 |
| <b>Product Application Details</b> |   |
| <b>Application Notes</b>           | DNA intercalator. Also used to increase transfection efficiency.  |

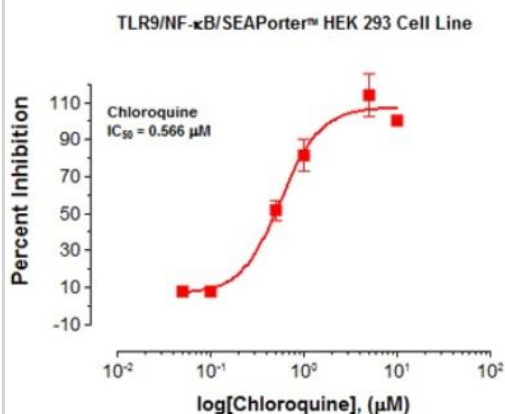


## Images

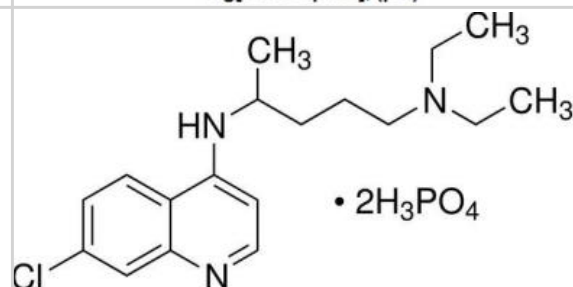
Chloroquine Inhibitor [NBP2-29386] - TLR9/NF- $\kappa$ B/SEAPorter™ HEK 293 and TLR2/NF- $\kappa$ B/SEAPorter™ HEK 293 cells were plated in 96-well plates at  $5 \times 10^4$  cells/well for 16 h. Cells were preincubated with different concentrations of chloroquine (0.05, 0.1, 0.5, 1, 5 and 10  $\mu$ M) for 30 min. Cells were then stimulated with 10  $\mu$ g/ml CpG [A] or 20 ng/ml MALP-2 [B] for 24 h. Secreted alkaline phosphatase (SEAP) was analyzed using SEAPorter™ Assay Kit.



Chloroquine Inhibitor [NBP2-29386] - TLR9/NF- $\kappa$ B/SEAPorter™ HEK 293 cells were plated in 96-well plates at  $5 \times 10^4$  cells/well for 16 h. Cells were preincubated with various concentrations of chloroquine for 30 min, followed by stimulation with 10  $\mu$ g/ml CpG for 24 h. SEAP was analyzed using SEAPorter™ Assay Kit. Dose-responsive percent inhibition of each sample well was calculated to yield the chloroquine IC<sub>50</sub> value.



Chloroquine Inhibitor [NBP2-29386]



## Publications

Syu JS, Baba T, Huang JY et al. Lysosomal activity maintains glycolysis and cyclin E1 expression by mediating Ad4BP/SF-1 stability for proper steroidogenic cell growth. Sci Rep. Mar 21 2017 12:00AM [PMID: 28325912]

## Procedures

### Product Handling Protocol (NBP2-29386)

1. To make 100 mM stock solution, dissolve 200 mg chloroquine in 3.9 ml water by gentle vortex.
2. Filter sterilize through a 0.22 um filter.
3. Store at 4oC (Note: Chloroquine solution is light sensitive).
4. For TLR signaling inhibition study, perform a pilot inhibitory test with the different concentrations of chloroquine ranging from 1 to 10 mM to optimize your experiments.



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### Products Related to NBP2-29386-25g

NBP1-05105

Chloroquine Antibody (25G10) - BSA Free

### Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Inhibitors are guaranteed for 1 year from date of receipt.

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