

Product Datasheet

Chloroquine Inhibitor NBP2-29386-25g

Unit Size: 25 g

Store at 4C in the dark.

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NBP2-29386-25g

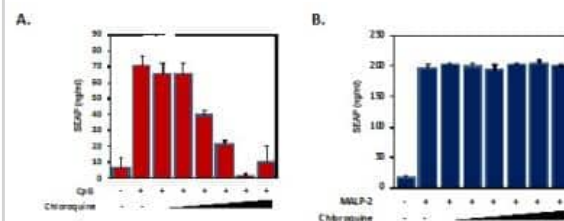
Chloroquine Inhibitor

Product Information	
Unit Size	25 g
Concentration	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
Storage	Store at 4C in the dark.
Buffer	Solubility:Deionized water Form : White Solid (Powder)
Product Description	
Immunogen	CAS Number 50-63-5 Empirical Formula (Hill Notation) C ₁₈ H ₂₆ ClN ₃ . 2H ₃ PO ₄ Molecular Weight 515.86
Product Application Details	
Applications	Block/Neutralize
Recommended Dilutions	Block/Neutralize
Application Notes	DNA intercalator. Also used to increase transfection efficiency. Use in blocking/neutralizing reported in scientific literature (PMID: 30239551).

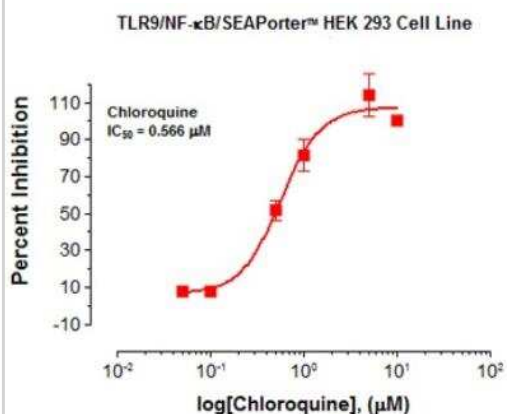


Images

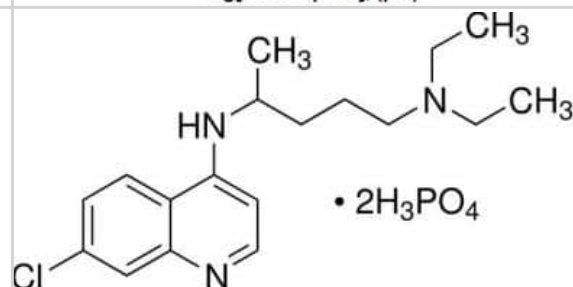
Chloroquine Inhibitor [NBP2-29386] - TLR9/NF- κ B/SEAPorter™ HEK 293 and TLR2/NF- κ B/SEAPorter™ HEK 293 cells were plated in 96-well plates at 5×10^4 cells/well for 16 h. Cells were preincubated with different concentrations of chloroquine (0.05, 0.1, 0.5, 1, 5 and 10 μ M) for 30 min. Cells were then stimulated with 10 μ 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- κ B/SEAPorter™ HEK 293 cells were plated in 96-well plates at 5×10^4 cells/well for 16 h. Cells were preincubated with various concentrations of chloroquine for 30 min, followed by stimulation with 10 μ 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 IC₅₀ value.



Chloroquine Inhibitor [NBP2-29386]



Publications

Lin RC, Chao YY, Su MT et al. Upregulation of miR-20b-5p inhibits trophoblast invasion by blocking autophagy in recurrent miscarriage Cellular signalling 2023-10-21 [PMID: 37871665]

Chao Y, Huang B, Peng I et al. ATM- and ATR-Induced Primary Ciliogenesis Promotes Cisplatin Resistance in Pancreatic Ductal Adenocarcinoma Research Square 2021-12-02 [PMID: 36251015]

Niu Z, Tang W, Liu T et al. Cell-free DNA derived from cancer cells facilitates tumor malignancy through Toll-like receptor 9 signaling-triggered interleukin-8 secretion in colorectal cancer. Acta Biochim. Biophys. Sin. (Shanghai) 2018-09-15 [PMID: 30239551] (B/N)

Syu J. S, Baba T, et al. Lysosomal activity maintains glycolysis and cyclin E1 expression by mediating Ad4BP/SF-1 stability for proper steroidogenic cell growth. Sci Rep 2017-03-21 [PMID: 28325912]

Procedures

Product Handling Protocol (NBP2-29386)

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 4°C (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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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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