

Product Datasheet

Quinacrine Inhibitor NBP2-29385-25g

Unit Size: 25 g

Store at 4C. Do not freeze.

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NBP2-29385-25g

Quinacrine 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. Do not freeze.
Buffer	Form : Yellow Solid (Powder) Solubility:Deionized water

Product Description

Immunogen	CAS Number 69-05-6 Empirical Formula (Hill Notation) C ₂₃ H ₃₀ CIN ₃ O. 2HCl Molecular Weight 472.88
Details of Functionality	Endosomal toll-like receptor inhibitor (antagonist); Inhibitor of endosomal acidification on which functional activity of endosomal TLRs (particularly TLR9 and TLR3) is dependent.
Inhibitor Family	TLR

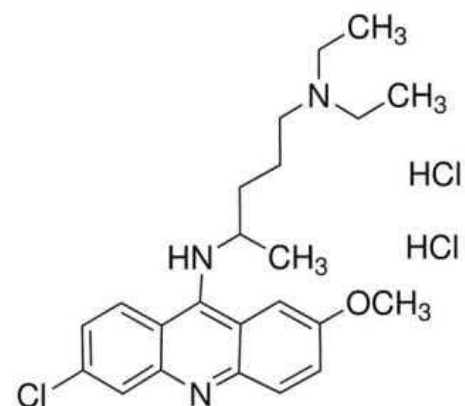
Product Application Details

Application Notes	Assay>=90%
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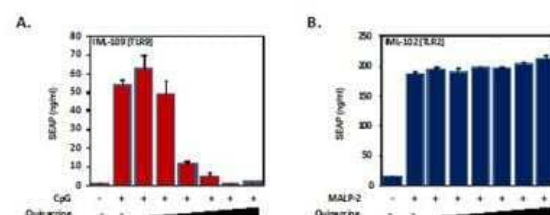


Images

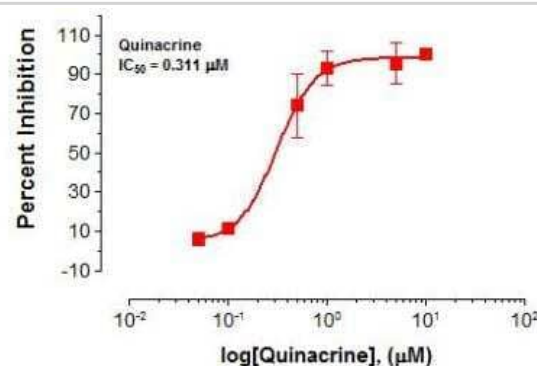
Quinacrine Inhibitor [NBP2-29385]



Quinacrine Inhibitor [NBP2-29385] - Evaluation of inhibitory activity of quinacrine. 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 quinacrine (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



Quinacrine Inhibitor [NBP2-29385] - 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 quinacrine 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 quinacrine IC₅₀ value.



Publications

Choudhuri S, Garg NJ PARP1-cGAS-NF- κ B pathway of proinflammatory macrophage activation by extracellular vesicles released during Trypanosoma cruzi infection and Chagas disease PLoS Pathog. 2020-04-01 [PMID: 32315358]



Procedures

Product Handling Protocol (NBP2-29385)

Product Handling Protocol (NBP2-29385):

1. To make 100 mM stock solution, dissolve 200 mg quinacrine in 4.2 ml water by gentle vortex.
2. Filter sterilize through a 0.22 μ m filter.
3. Store at 4°C (Note: Quinacrine solution is light sensitive.).
4. For TLR signaling inhibition study, perform a pilot inhibitory test with the different concentrations of quinacrine 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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