

Human Neopterin ELISA Kit | Neopterin elisa kit

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CATALOG #
AAA17315

REACTIVITY
Human

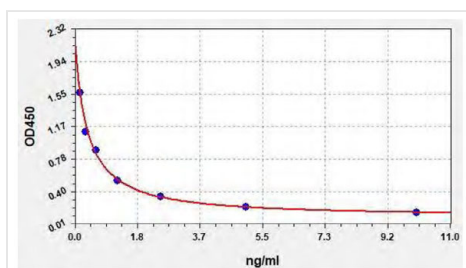
PRODUCT SYNONYMS

Neopterin; Human Neopterin ELISA Kit; Neopterin elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize Neopterin, no obvious cross reaction with other analogues
Assay Type	Competitive
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Neopterin elisa kit	Background: Neopterin is an indicator of macrophage activation and is increased in the serum of untreated children with JDM. Neopterin, a member of the pteridine family, is derived from guanosine triphosphate via guanosine triphosphate cyclohydrolase and is released from macrophages as a consequence of T-cell-dependent interactions¹⁶⁰ involving interferon-gamma (IFN-gamma).Neopterin suppresses the expression of monocyte chemotactic protein-1, vascular cell adhesion molecule-1, and intercellular adhesion molecule-1 in endothelial cells, and thereby suppresses the adhesion of monocytes to endothelial cells.It also suppresses the inflammatory phenotype of monocyte-derived macrophages. Principle of the Assay: This kit was based on Competitive-ELISA detection method. The microtiter plate provided in this kit has been precoated with Neopterin. During the reaction, Neopterin in the sample or standard competes with a fixed amount of Neopterin on the solid phase supporter for sites on the Biotinylated Detection Antibody specific to Neopterin. Excess conjugate and unbound sample or standard are washed from the plate, and HRP-Streptavidin (SABC) is added to each microplate well and incubated. Then TMB substrate solution is added to each well. The enzyme-substrate reaction is terminated by the addition of a acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm. The concentration of Neopterin in the samples is then determined by comparing the OD of the samples to the standard curve. The concentration of the target substance was inversely proportional to the OD₄₅₀ value.
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/neopterin/17315>