

## Human Cytochrome P450 3A4 (CYP3A4) RTU ELISA Kit | CYP3A4 rtu elisa kit

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CATALOG #  
**AAA70125**

REACTIVITY  
**Human**

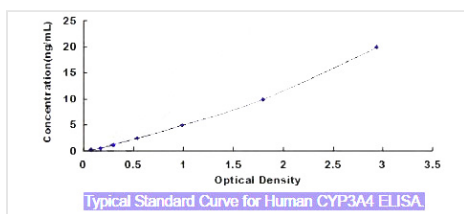
### PRODUCT SYNONYMS

Cytochrome P450 3A4 (CYP3A4); Human Cytochrome P450 3A4 (CYP3A4) ELISA Kit; CYP3A3; CYP11A4; 1; 8-cineole 2-exo-monooxygenase; Albendazole sulfoxidase; Nifedipine oxidase; Quinine 3-monooxygenase; Taurochenodeoxycholate 6-alpha-hydroxylase; CYP3A4 rtu elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                               |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of CYP3A4. No significant cross-reactivity or interference between CYP3A4 and analogues was observed.                                                                                                                                                                       |
| Sequence Length         | 502                                                                                                                                                                                                                                                                                                                                                 |
| Samples                 | Human tissue homogenates, cell lysates, cell culture supernates or other biological fluids                                                                                                                                                                                                                                                          |
| Assay Type              | Quantitative Sandwich                                                                                                                                                                                                                                                                                                                               |
| Detection Range         | 0.312-20ng/mL                                                                                                                                                                                                                                                                                                                                       |
| Sensitivity             | <0.128ng/mL                                                                                                                                                                                                                                                                                                                                         |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CYP3A4 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%                                                                                                                                                                            |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level CYP3A4 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%                                                                                                                                          |
| Preparation and Storage | For unopened kits: All the reagents should be kept at 4 degree C upon receipt.<br>For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal. |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| Related Product Information for CYP3A4 rtu elisa kit | <p>Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of CYP3A4 in human tissue homogenates, cell lysates, cell culture supernates or other biological fluids.</p> <p>Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CYP3A4. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CYP3A4. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain CYP3A4, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of CYP3A4 in the samples is then determined by comparing the O.D. of the samples to the standard curve.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                           |
|----------------------------------|---------------------------------------------------------------------------|
| NCBI GI #                        | 322302351                                                                 |
| NCBI GeneID                      | 1576                                                                      |
| NCBI Accession #                 | NP_001189784.1                                                            |
| NCBI GenBank Nucleotide #        | NM_001202855.2                                                            |
| UniProt Accession #              | P08684; P05184; Q16757; Q9UK50                                            |
| Molecular Weight                 | 57,343 Da                                                                 |
| NCBI Official Full Name          | cytochrome P450 3A4 isoform 2                                             |
| NCBI Official Synonym Full Names | cytochrome P450 family 3 subfamily A member 4                             |
| NCBI Official Symbol             | CYP3A4                                                                    |
| NCBI Official Synonym Symbols    | HLP; CP33; CP34; CYP3A; NF-25; CYP3A3; P450C3; CYP11A3; CYP11A4; P450PCN1 |
| NCBI Protein Information         | cytochrome P450 3A4                                                       |
| UniProt Protein Name             | Cytochrome P450 3A4                                                       |
| UniProt Gene Name                | CYP3A4                                                                    |
| UniProt Synonym Gene Names       | CYP3A3                                                                    |

**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.