FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

Mouse CYP4F2 ELISA Kit

Cat.No: MBS3806041

Storage: 2-8°°C.

validity: six months.

The sensitivity by this assay is 0.1 ng/mL

Standard concentration was followed by:24,12,6,3,1.5,0ng/mL Both intra-assay CV and inter-assay CV is less than 15%.

Intended use

ThisCYP4F2ELISA kit is intended Laboratory for Research use only and is not for use in diagnostic or therapeutic procedures. The Stop Solution changes the color from blue to yellow and the intensity of the color is measured at 450 nm using a spectrophotometer. In order to measure the concentration of CYP4F2 in the sample, thisCYP4F2ELISA Kit includes a set of calibration standards. The calibration standards are assayed at the same time as the samples and allow the operator to produce a standard curve of Optical Density versusCYP4F2 concentration. The concentration of CYP4F2 in the samples is then determined by comparing the O.D. of the samples to the standard curve.

Sample collection and storages

Plasma

Collect plasma using
EDTA or heparin as an
anticoagulant.
Centrifuge samples for 30
minutes at 3000×g at
2-8°C within 30 minutes of
collection.Store samples
at -20°C or -80°C.
Avoid repeated
freeze-thaw cycles.

Cell culture supernate and other biological fluids

Remove particulates by centrifugation and assay immediately or aliquot and store samples at -20°C or -80°C.

Avoid repeated

freeze-thaw cycles.

Serum

Use a serum separator tube and allow samples to clot for 30 minutes before centrifugation for 10 minutes at approximately 3000×g. Remove serum and assay immediately or aliquot and store samples at -20°C or -80°C.

Avoid repeated freeze-thaw cycles



Note: The samples should be centrifugedadequately and no hemolysis or granule was allowed.

Materials required but not supplied

- 1. Standard microplate reader(450nm).
- 2. Precision pipettes and Disposable pipette tips.
- 3. 37 °C incubator.

Precautions

- 1. Donot substitutereagentsfromone kit to another. Standard, conjugateandmicroplates are matchedfor optimal performance. Useonly thereagents supplied by manufacturer.
- 2. Donot removemicroplatefrom the storage baguntilneeded. Unusedstripsshouldbe stored at2-8°Cin their pouchwith the desiccantprovided.
- 3. Mix all reagents before using.

Remove allkit reagentsfrom refrigerator and allow them to reachroom temperature(20-25°C)

Materials supplied

Name	96determinations	48 determinations
Microelisastripplate	12*8strips	12*4strips
Standard	0.3ml*6 vials	0.3ml*6 vials
Sample diluent	6.0ml*1vial	3.0ml*1vial
HRP-Conjugate reagent	10.0ml*1vial	5.0ml*1vial
20X Wash solution	25ml*1vial	15ml*1vial
Chromogen Solution A	6.0ml*1vial	3.0ml*1vial
Chromogen Solution B	6.0ml*1vial	3.0ml*1vial
Stop Solution	6.0ml*1vial	3.0ml*1vial
Closure plate membrane	2	2
User manual	1	1
Sealed bags	1	1

Reagent preparation

20×wash solution: Dilute with Distilled or deionized water 1:20.

Assay procedure

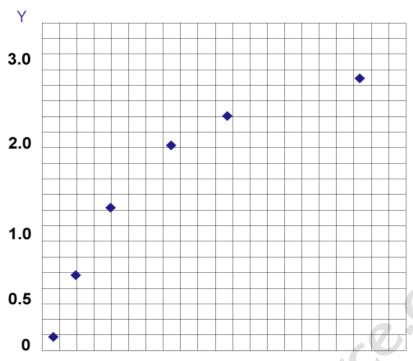
- 1. Prepare allreagentsbeforestartingassayprocedure. ItisrecommendedthatallStandardsand Samplesbe addedin duplicateto the MicroelisaStripplate.
- 2. Add standard: Set Standard wells, testing sample wells. Add standard 50µl to standard well.
- 3. Add Sample: Add testing sample 10µl Then add sample diluent40µl to testing sample well; Blank well doesn't add anything.
- 4. Add100µlofHRP-conjugate reagent to each well, cover with an adhesive stripandincubatefor 60 minutes at37°C.
- 5. Aspirate each well and wash, repeating the process four times for a total of five washes. Wash by filling each well with Wash Solution (400µl) using a squirt bottle, manifolddispenseror auto washer. Complete removal of liquid at each step is essential to good performance. After the last wash, remove any remaining Wash Solution by aspirating ordecanting. Invert the plate and blot it against clean paper towels.
- 6. Add chromogen solution A 50µl and chromogen solution B 50µl to each well. Gently mix and incubate for 15 minutes at 37°C. **Protect from light.**
- 7. Add 50µl Stop Solution to each well. The color in the wells should change from blue toyellow. If the color in the wells is green or the color change does not appear uniform, gently tap the plate to ensure thorough mixing.
- 8. ReadtheOpticalDensity(O.D.)at450nmusinga microtiterplatereaderwithin15minutes.

Calculation of results

- This standard curve is used to determine the amount in an unknown sample. The standard curve is generated by plotting the average O.D. (450 nm) obtained for each of the six standard concentrations on the vertical (Y) axis versus the corresponding concentration on the horizontal (X) axis.
- First, calculate the mean O.D. value for each standard and sample. All O.D. values, are subtracted
 by the mean value of the zero standard before result interpretation. Construct the standard curve
 using graph paper or statistical software.
- To determine the amount in each sample, first locate the O.D. value on the Y-axis and extend a
 horizontal line to the standard curve. At the point of intersection, draw a vertical line to the X-axis
 and readthe corresponding concentration.
- 4. Any variation in operator, pipetting and washing technique, incubation time or temperature, and kit

age can cause variation in result. Each user should obtain their own standard curve.

5. Standard curve



standards concentration (X)

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