

HBT ELISA TEST KITS FOR HUMAN SLPI, SECRETORY LEUCOCYTE PROTEASE INHIBITOR

The Hbt Human SLPI kits have been developed for the quantitative measurement of natural and recombinant Human SLPI in tissue culture supernatant, plasma, serum, sputum, urine and many other body fluids.

PRINCIPLE OF THE TEST

The Hbt Human SLPI ELISA test kit is a solid-phase enzyme-linked immunosorbent assay based on the sandwich principle. Samples and standards are incubated in microtiter wells coated with antibodies recognizing Human SLPI. During this incubation Human SLPI is captured by solid bound antibody. Unbound material present in the sample is removed by washing. Next biotinylated second antibody (tracer) to Human SLPI is added to the wells. If SLPI was present in the sample, the tracer antibodies will bind to the captured SLPI. The excess tracer is removed by washing. Next a streptavidin-peroxidase conjugate is applied to the wells, this conjugate reacts specifically with the biotinylated tracer antibody bound onto the detected SLPI. The excess streptavidin-peroxidase conjugate is removed by washing and substrate, tetramethylbenzidine (TMB) is added to the wells. Colour develops proportionally to the amount of human SLPI present in the sample. The enzyme reaction is stopped by the addition of citric acid and the absorption at 450 nm is measured with a spectrophotometer. A standard curve is obtained by plotting the absorptions versus the corresponding concentrations of the known standards. The human SLPI concentration of samples with unknown concentrations, which are run concurrently with the standards, can be determined from the standard curve.

SPECIAL FEATURES OF THE KIT

- Ready-to-use (i.e. pre-coated microwells).
- High specificity.
- High reproducibility
- High sensitivity. The minimum concentration which can be measured is 20 pg/ml of SLPI.
- Large measurable concentration range. Standard curve from 20-5000 pg/ml.
- Efficient format. Two plates with each twelve 8-well strips allow free choice of batch size for the assay.
- Simple, rapid procedure. Four pipetting steps are required to complete the assay. Working time 3½ hours.

AVAILABILITY

The Hbt Human SLPI tests are available in kits for 2 x 96 determinations.

PRODUCT NUMBER: HK316

Hbt Human SLPI ELISA Kit

For research purposes only.

Caution: Not for use in humans.