iLite™ Human Interferon-Alpha Cell-Based Assay Kit

Interest in any of the products, request or order them at Bio-Connect.
**Product Features:**

- **Unique gene-reporter assay:** detects all interferon-alpha subtypes as well as other Type I IFNs.
- **Rapid setup and data generation:** reduces experiment time to as little as 7 hours.
- **Quantitative and sensitive international units measurement:** increases data reproducibility.
- **Data closely correlates to anti-viral activity.**

The **iLite** IFN-α Kit (PBL Cat #51100-1) is based upon a conventional gene-reporter assay format that has been modified and adapted for the quantitative determination of biologically active IFN-α levels.

An IFN-α responsive gene has been carefully selected and replaced with firefly luciferase with modifications to maximize reporter gene expression.

The reporter cells used in the kit have been selected for a high level of active IFN-α receptor protein and are grown in a controlled manner such that the number of receptors is consistent. The cells are then treated by a proprietary method to render them “proliferation deficient”. These division-arrested cells respond in a highly predictable manner when used according to the assay protocol.

The **iLite** IFN-α Kit features a simple method for quantitative determination of IFN-α bioactivity level. To measure the activity of IFN-α in a biological sample, simply remove the kit from freezer, thaw the reporter cells and distribute to a 96-well plate. Then, just add samples. The cells are incubated for 7-17 hours, during which time, the expression of active luciferase enzyme molecules is directly proportional to the number of IFN-α molecules that have bound to the cell receptor. The luminescent substrates for the luciferase enzyme are added and the reaction measured in a luminometer.

The level of luciferase enzyme activity observed in the assay can be correlated to International Units (IU) of the IFN-α by the generation of a standard curve using the supplied IFN-α standard.

*For research only, not for diagnostic or therapeutic use.*
BRING iLite™ INTO YOUR INTERFERON RESEARCH

PBL’s iLite™ Human Interferon-Alpha kit
a simple and rapid cell-based assay for detection and quantification of Type I interferon bioactivity

- Gene reporter assay format works with serum, plasma, or culture supernatants
- Includes IFN-α standard and assay-ready cells for minimal upfront effort
- Effective measurement range from 0.5 IU/ml to approximately 150 IU/ml
- Low inter- and intra-assay variability in cell-based format
- Results in as little as 7 hours

Learn more at www.InterferonSource.com