

iLite[®] IFN Type I FAST ASSAY READY CELLS

iLite IFN Type I FAST Assay Ready Cells are type I Interferon (IFN) responsive reporter gene cells designed to measure the functional activity of type I IFN or the presence of neutralizing antibodies against type I IFN in assay with considerably shorter assays time than previously established methods.

Type I Interferons (IFNs) are cytokines with antiviral, antitumor and immunoregulatory functions, that are released by both immune and non-immune cells as a first line of innate host defense, particularly viral infections.

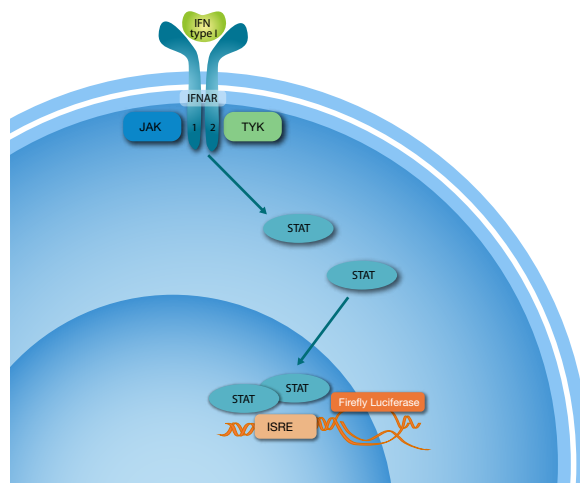
IFNs are classified into three groups and generally initiate signaling via the JAK-STAT (Janus kinase/signal transducer and activator of transcription) pathway. Type I IFNs include at least 16 different subtypes. The most well-defined are IFN alpha (IFN α) and IFN beta (IFN β), which bind to the heterodimeric IFN alpha/beta receptor (IFNAR), thereby inducing intracellular signaling.

Type I IFNs are used in several clinical settings due to their antiviral and immunomodulatory properties. Recently it has been observed that individuals with severe cases of COVID-19 have a robust type I IFN response, which could contribute to the exacerbated hyperinflammation observed in the progression to severe cases.

There is an interest in the development of new potent IFN α and β inhibitors for a range of applications. From treating detrimental effects of persistent viral infections to improving biotechnological applications (such as production of interferon-sensitive viruses)

The iLite[®] IFN type I FAST platform offers a reliable and time-efficient cell-based assay that enables studies of IFN α and β .

- Highly sensitive assay with large dynamic range
- Unique Assay Ready Cell format
- Highly reproducible assay results in 5 hours



iLite[®] IFN Type I FAST Assay Ready Cells

Product code	BM4049
Format	Assay Ready Cells, Run in a standard 96-well format
Related Products	
BM3049	iLite [®] IFN Type I Assay Read Cells
BM3044	iLite [®] TNF-alpha Assay Ready Cells
BM4050	iLite [®] GM-CSF Assay Ready Cells
BM4012	iLite [®] IL-12 Assay Ready Cells
BM4023	iLite [®] IL-23 Assay Ready Cells
Application	The iLite [®] IFN Type I FAST Assay Ready Cells can be used for quantification of IFN α or β and for measurement of both anti-IFN α antibodies and anti-IFN β antibodies. Application Notes for the following assays are available: <ul style="list-style-type: none"> • Quantification of IFN α or β • Determination of neutralizing antibodies to Type I IFN
Incubation time	Type I Interferon: 5 hours NAbs to IFN alpha or beta 1a: 30min + 5 hours
Detection system	Luminescence
Availability	Research Use Only (RUO)*

*These products are intended for professional research use only. The data and results originating from using the products, should not be used either in diagnostic procedures or in human therapeutic applications.

In accepting delivery of iLite[®] Assay Ready Cells the recipient agrees not to sub-culture these cells, attempt to sub-culture them or to give them to a third party, and recipient is only to use them directly in assays. The iLite[®] cell-based products are covered by patents which are the property of Svar Life Science AB and any attempt to reproduce the delivered iLite[®] Assay Ready Cells would constitute an infringement.

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