

***iLite*[®] TNF-alpha (16 ng/mL)**

REF: BM3133

For research use only. Not for use in diagnostic procedures.

DESCRIPTION

iLite[®] TNF-alpha (16 ng/mL), is a recombinant TNF-alpha, diluted to the appropriate concentration for stimulating *iLite*[®] TNF-alpha Assay Ready Cells (BM3044).

CONTENT

7 mL of *iLite*[®] TNF-alpha (16 ng/mL) diluted in RPMI 1640 with 10% heat inactivated FBS.

RECEIPT AND STORAGE

Upon receipt confirm that adequate dry-ice is present and the reagent is frozen. Immediately transfer to - 80°C storage.

BACKGROUND

Tumor necrosis factor alpha (TNF-alpha) promotes inflammatory responses, which, in turn, contribute to the clinical problems associated with many inflammatory disorders, including rheumatoid arthritis, ankylosing spondylitis, Crohn's disease, psoriasis and refractory asthma. These diseases are sometimes treated with TNF-alpha inhibitors, including infliximab, adalimumab, etanercept, certolizumab pegol, or golimumab. Prolonged therapies with these TNF-alpha inhibitors may lead to development of neutralizing antibodies (NABs), which may counteract the TNF-alpha antagonist activity of the drugs.

APPLICATION

The *iLite*[®] TNF-alpha (16 ng/mL) can be used for the stimulation of *iLite*[®] TNF-alpha Assay Ready Cells, to give an optimal signal, according to the below protocols.

Application Notes for the following assays are available:

- Quantification of TNF-alpha blockers using *iLite*[®] TNF-alpha Assay Ready Cells (E-173-GB)
- Determination of neutralizing antibodies against TNF-alpha blockers using *iLite*[®] TNF-alpha Assay Ready Cells (E-174-GB)

RELATED PRODUCTS

REF	Product name
BM3044	<i>iLite</i> [®] TNF-alpha Assay Ready Cells
BM3132	<i>iLite</i> [®] Diluent A
BM3134	<i>iLite</i> [®] Diluent B
BM3135	<i>iLite</i> [®] Reagent BLANK
BM3136	<i>iLite</i> [®] Infliximab NAb positive control
BM3139	<i>iLite</i> [®] Diluent C
BM3159	<i>iLite</i> [®] Adalimumab NAb positive control
BM3177	<i>iLite</i> [®] Etanercept NAb positive control

REFERENCES

1. **Lallemand C, Kavrochorianou A, Steenholdt C, Bendtzen K, Ainsworth MA, Meritet J-F, Blanchard B, Lebon P, Taylor P, Charles P, Alzabin S, Tovey MG.** *Reporter gene assay for the quantification of the activity and neutralizing antibody response to TNF-alpha antagonists.* J Immunol Meth. 2011, 373: 229-239.

SYMBOLS ON LABEL

	Lot number		Temperature limitation
	Catalogue number		Biological risk
	Use by		Manufacturer

PRECAUTIONS

For research use only. This product is intended for professional laboratory research use only. The data and results originating from using the product, should not be used either in diagnostic procedures or in human therapeutic applications.

iLite[®] TNF-alpha Assay Ready Cells are a stable transfected cell line of human origin classified as a Class 1 Genetically Modified Microorganism. They should be handled in accordance with EU regulations (2009/41/EC) and disposed of in a licensed contained-use facility in accordance with these regulations. When used in accordance with the manufacturer's product specification, the requirements of EC Directive 2009/41/EC on the contained-use of genetically modified microorganisms are deemed to have been met.

Residues of chemicals and preparations generally considered as biohazardous waste and should be inactivated prior to disposal by autoclaving or using bleach. All such materials should be disposed of in accordance with established safety procedures.

PROPRIETARY INFORMATION

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 only to use them directly in assays. *iLite*[®] cell-based products are covered by patents which is the property of Svar Life Science AB and any attempt to reproduce the delivered *iLite*[®] Assay Ready Cells is an infringement of these patents.