

iLite® TNF-alpha Xcel Assay Ready Cells REF: BM4044

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

DESCRIPTION	<i>iLite[®]</i> TNF-alpha Xcel Assav Ready Cells are human embryonic kidney
	HEK293 ¹ cells which have been genetically engineered and optimized to be responsive to TNF-alpha, resulting in a proportional expression of Firefly Luciferase. The cells also contain the Renilla Luciferase internal standardization gene under the control of a constitutive promoter that renders assay results independent of cell number and provides a means for correcting for cytotoxic effects that may be encountered with some biological samples.
CONTENT	>250 μL of <i>iLite[®]</i> Assay Ready Cells suspended in cryoprotective medium from Gibco (cat no 12648-010).
RECEIPT AND STORAGE	Upon receipt confirm that adequate dry-ice is present, and the cells are frozen. Immediately transfer to -80°C storage. Cells should be stored at -80°C or at lower temperature and are stable as supplied until the expiry date shown. Cells should be diluted and plated immediately after thawing.
BACKGROUND	TNF-alpha promotes inflammatory responses, which in turn contribute to the clinical symptoms associated with many inflammatory disorders, including rheumatoid arthritis, ankylosing spondylitis, Crohn's disease, psoriasis and refractory asthma. (1) These diseases are in many cases treated with TNF-alpha inhibitors, such as infliximab , adalimumab , etanercept , golimumab , and certolizumab pegol . 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 inhibitors. (2)
APPLICATION	The <i>iLite[®]</i> TNF-alpha Xcel Assay Ready Cells can be used for studies of functional TNF-alpha, TNF-alpha inhibitor activity and presence of neutralizing antibodies to TNF-alpha inhibitors in test samples, including human serum.
	 Please see: Quantification of functional TNF-alpha (LABEL-DOC-0693) Quantification of TNF-alpha inhibitor activity (LABEL-DOC-0694) Determination of neutralizing antibodies against TNF-alpha inhibitor (LABEL-DOC-0695)
¹ The HEK-293 cell line has b	 een used under a license obtained from AdVec Inc.

Svar Life Science AB

Lundavägen 151 Sweden

info@svarlifescience.com +46 40 53 76 00

PRODUCT SPECIFICATION



REFERENCES	 Kalliolias GD, Ivashkiv LB. <i>TNF biology, pathogenic mechanisms and emerging therapeutic strategies.</i> Nat Rev Rheumatol. 2016 Jan;12(1):49-62. Kalden JR, Schulze-Koops H. <i>Immunogenicity and loss of response to TNF inhibitors: implications for rheumatoid arthritis treatment.</i> Nat Rev Rheumatol. 2017 Nov 21;13(12):707-718.
SYMBOLS ON LABEL	LoTLot number✓Temperature limitationREFCatalogue numberImage: Catalogue numberImage: Catalogue numberImage: Catalogue number☑Use byImage: Catalogue numberImage: Catalogue number
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.
	<i>iLite</i> [®] TNF-alpha Xcel Assay Ready Cells are a stable transfected cell line of human origin classified as a Class 1 Genetically Modified Microorganism. This is based on the conclusion that neither insert nor vector adds anything to the biosafety level since the cells cannot produce active virus. They should be handled in accordance with EU directive (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 <i>iLite</i> [®] 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. <i>iLite</i> [®] cell-based products are covered by patents which is the property of Svar Life Science AB and any attempt to reproduce the delivered <i>iLite</i> [®] Assay Ready Cells is an infringement of these patents.

Svar Life Science AB Lundavägen 151

Sweden

Lundavägen 151 P.O. Box 50117 SE-212 24 Malmö SE-202 11 M---Sweden SE-202 11 Malmö Sweden