



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

***iLite*[®] ADCC Effector (V) Assay Ready Cells**

REF: BM5001

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

DESCRIPTION

iLite[®] ADCC Effector (V) Assay Ready Cells are human engineered cells (Jurkat, ATCC #TIB-152) optimized to express high levels of the low affinity Fc receptor FcγIIIa (CD16), and the Firefly Luciferase (FL) reporter gene under the control of a proprietary chimeric promoter. The FcγIIIa receptor responds to ligation of the Fc moiety of an antibody bound to the specific antigen on target cells by activation of the FL reporter gene.

Normalization of cell counts, serum matrix effects or lysis of the effector cells by the target cells is obtained by a second reporter gene, a Renilla Luciferase reporter gene construct, under control of a constitutive promoter.

CONTENT

>250 µL of *iLite*[®] 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 (**do not store at any other temperature**) and are stable as supplied until the expiry date shown. Cells should be used within 30 min of thawing.

BACKGROUND

Antibody-dependent cell-mediated cytotoxicity (ADCC) is a mechanism whereby pathogenic cells are lysed by lymphocytes, most often Natural Killer (NK) cells. The mechanism involves binding of antibodies to surface antigens on the pathogen. Crosslinking of these antibodies to NK cells through the binding of the Fc-portion to Fc receptors on the NK cells leads to activation of the NK cell and formation of an immune synapse with the pathogenic cell. The NK cell releases cytotoxic granules containing granzymes and perforin into the synapse, leading to apoptosis of the targeted cell (1).

The idea of employing ADCC to destroy dysfunctional cells by treating patients with antibodies which induce this mechanism has existed since the discovery of the ADCC mechanism. The first monoclonal antibody for treating cancer to be FDA approved was Rituximab which in part utilizes the ADCC mechanism to destroy cancer cells expressing CD20. Induction of ADCC through monoclonal antibodies is also utilized in treating autoimmune diseases (2, 3).

APPLICATION

The *iLite*[®] ADCC Effector (V) Assay Ready Cells can be used together with *iLite*[®] ADCC Target Assay Ready Cells for quantification of ADCC activity. Please see:

- Quantification of anti-HER2 ADCC activity (LABEL-DOC-0402)
- Quantification of anti-mTNF-alpha ADCC activity (LABEL-DOC-0403)
- Quantification of anti-EGFR ADCC activity (LABEL-DOC-0407)

RELATED PRODUCTS

REF	Product name
BM5011	<i>iLite</i> [®] HER2 (+) Target Assay Ready Cells
BM5016	<i>iLite</i> [®] HER2 (-) Target Assay Ready Cells
BM5090	<i>iLite</i> [®] anti-HER2 ADCC Activity Set
BM5035	<i>iLite</i> [®] EGFR (+) Target Assay Ready Cells
BM5036	<i>iLite</i> [®] EGFR (-) Target Assay Ready Cells
BM5080	<i>iLite</i> [®] anti- EGFR ADCC Activity Set
BM5013	<i>iLite</i> [®] mTNF-alpha (+) Target Assay Ready Cells
BM5014	<i>iLite</i> [®] mTNF-alpha (-) Target Assay Ready Cells
BM5095	<i>iLite</i> [®] anti- mTNF-alpha ADCC Activity Set

REFERENCES

1. Weiner GJ. *Building better monoclonal antibody-based therapeutics*. Nat Rev Cancer 15: 361-70 (2015).
2. Grillo-López AJ, White CA, Varns C, et al. *Overview of the clinical development of rituximab: first monoclonal antibody approved for the treatment of lymphoma*, Semin Oncol 26:66-73 (1999).
3. Brennan FR, Morton LD, Spindeldreher S, et al. *Safety and immunotoxicity assessment of immunomodulatory monoclonal antibodies*, MAbs, 2:233-55 (2010).

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[®] ADCC Effector (V) 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.