

**Datasheet for 451Lu-03-0005****451Lu Non-Viable Cell Pellet****Overview**

|                     |                                              |
|---------------------|----------------------------------------------|
| <b>Description:</b> | 451Lu Non-Viable Cell Pellet - 451Lu-03-0005 |
| <b>Item No.:</b>    | 451Lu-03-0005                                |
| <b>Size:</b>        | 5 million cells                              |
| <b>Origin:</b>      | Human                                        |

**Product Details**

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>        | Non-viable cell pellet was generated from cell line 451Lu. 451Lu is a selected xenograft aggressive metastatic sub-line of WM164. WM164 is a metastatic human melanoma cell line established from a metastatic site (right upper arm) in a 22-year-old male with stage IV superficial spreading melanoma. 451Lu cell line features the specific V600E (Val600Glu) mutation at codon 600 in the BRAF gene. This mutation causes constitutively active kinase activity and activation of MEK and ERK signaling pathway. This cell line is wild type for PTEN, N-RAS, c-KIT, and CDK4 genes. |
| <b>Synonyms:</b>          | Melanoma, patient derived tumor, tumor models, skin cancer, xenograft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species of Origin:</b> | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**Target Details**

|                            |                                                                                                                                                                                                                          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity/Specificity:</b> | Cells were grown sub-confluent to approximately ( $2 \times 10^6$ ) cells in Tumor specialized media and then trypsinized. Cells were harvested and cell pellets were flash frozen and stored at $-80^{\circ}\text{C}$ . |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li><a href="#">Cell Line EULA</a></li></ul>                                                                                                                                           |

**Application Details**

|                          |                                                                                                                                                                               |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application Note:</b> | Frozen non-viable cell pellets can be used for in vitro experiments such as Western blotting and other immunoassays, genomic DNA isolation, STR profiling, and RNA isolation. |
| <b>Assay Dilutions:</b>  | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                               |

## Cell Line Data

|                 |                    |
|-----------------|--------------------|
| Cell Line:      | Human Melanoma     |
| Product Type:   | Non-Viable Pellets |
| Cell Viability: | No                 |
| Stage:          | Metastasis         |
| BRAF:           | V600E              |
| CDK4:           | WT                 |
| C-Kit:          | WT                 |
| N-RAS:          | WT                 |
| PTEN:           | WT                 |
| Paired:         | Yes                |

## Formulation

|                 |                                          |
|-----------------|------------------------------------------|
| Physical State: | Frozen Cell Pellet                       |
| Concentration:  | 5.0 million cells Count By Hemocytometer |
| Buffer:         | None                                     |
| Preservative:   | None                                     |
| Stabilizer:     | None                                     |

## Shipping & Handling

|                     |                                                                                              |
|---------------------|----------------------------------------------------------------------------------------------|
| Shipping Condition: | Dry Ice                                                                                      |
| Storage Condition:  | Store vial at -70° C. For extended storage, aliquot contents to minimize freeze/thaw cycles. |
| Expiration:         | Expiration date is one (1) year from date of receipt.                                        |

## Images

**Vial**

Human melanoma tumor cell pellets for assessment of proteins and their phosphorylation status

**Disclaimer**

No test method can provide total assurance that the hepatitis B virus, hepatitis C virus, human immunodeficiency virus, or any other infectious agents are absent. Thus, all blood products, including purified proteins derived from human blood sources, should be handled at Biosafety Level 2 as recommended by the CDC\NIH manual entitled Biosafety in Microbiological and Biomedical Laboratories for potentially infectious human serum, blood specimens or proteins derived from same. Source material for the human blood product supplied to your facility has been tested for the detection of HIV antibody, Hepatitis B surface antigen, antibody to Hepatitis C, HIV 1 antigen(s), antibody to HTLV - I/II, and syphilis by FDA guidelines. All units were found to be non-reactive/negative for these tests. All human blood source material is collected in FDA licensed centers and is tested with FDA approved test kits.

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