

Biosafety Documentation: SNCA A53T iCell® Products

Donor ID	01279	Cell Line ID	01279.431
Donor Sex	Male	Genotype	SNCA A53T
Starting Material	Blood	Zygoty	Heterozygous
Age at Collection	50 – 60 years	OMIM Reference Gene	163890
Race	Caucasian	Catalog #	C1112, C1113
Ethnicity	Unknown		

Cell Source and Biosafety Level Classification

iCell® products are human cells differentiated from a master bank of stably induced pluripotent stem (iPS) cells. FUJIFILM Cellular Dynamics, Inc. (FCDI), classifies these cells as Biosafety Level 1 (BSL1) based on the United States Centers for Disease Control and Prevention publication: *Biosafety in Microbiological and Biomedical Laboratories*. Handle the cells according to the biosafety guidelines applicable in your region.

Reprogramming

The iPS cell line was generated from human peripheral blood through ectopic expression of reprogramming factors by episomal transfection.

Following reprogramming, no episomal plasmids were detected by PCR in the iPS cell line.

Engineering

The iPS cells were engineered to express neomycin resistance under the control of a neuronal-specific promoter. A puromycin resistance cassette was also included in the targeting vectors to enable selection of the engineered iPS cell clones.

The resulting engineered iPSC line was further engineered to introduce the SNCA A53T single amino acid change. No additional drug selection cassettes were introduced.

None of the engineering vectors used contain oncogenes.

Infectious Disease Testing

The incoming peripheral blood was tested and non-reactive for HBV, HCV, HIV-1, and HIV-2.

In addition, the cell line was tested and non-reactive for HTLV1, HTLV2, HAV, Hantavirus, HSV1, HSV2, HCMV, HHV6, HHV8, HAdV, HPV16, HPV18, LCMV, VZV, EBV and syphilis.