Cat # SL100568-JURKAT Store at 4 ^o C	GenMute™ siRNA Transfection Read Jurkat Cell A General Protocol for Tran siRNA to Jurkat Cell 100 μl 500 μl 1000 μl	9601 Medical Center Drive		
This product	is for laboratory research ONLY and not for diagnostic use			
transfectio Change (PE modified b making Ger GenMute™ transfectio	Den: Reagent is a novel biodegradable polymer based siRNA and DNA n reagent. With our proprietary pH Dependent Conformational DCC) technology, the biodegradable polymer was chemically y addition of pre-screened hydrophobic groups to side chain, nMute [™] Reagent the most powerful siRNA delivery tool. siRNA Transfection Reagent for Jurkat is pre-optimized for g siRNA to Jurkat cell with maximum silencing. Guidelines for Transfection:	 For each well of cells to be transfected, dilute 20 pmoles siRNA with 50 µl working solution of GenMute[™] transfection buffer prepared from <u>Step I</u>. Pipette up and down to mix. Note: For maximum gene silencing, dilute siRNA reagent with GenMute[™] Transfection Buffer (1x). We strongly suggest reconstituting siRNA stock solution at 10 µM, so add 2.0 µl siRNA stock solution per well of 24-well plate to make final 40 nM siRNA. Add 2.0 µl of GenMute[™] Reagent directly to the diluted siRNA 		
 Maintain passage c viable bet For maxin Transfect 	the same seeding conditions between experiments. Use low- ells and make sure that cells are healthy and greater than 90% fore transfection. num gene silencing, we recommend using GenMute [™] ion Buffer to dilute siRNA/DNA and GenMute [™] Reagent. e standard protocol for siRNA transfection to Jurkat cell is being	solution followed by mix gently and incubate for ~15 minutes at RT. Note: Never keep the complex longer than 30 minutes. - Add the 50 µl transfection mix to the cells drop wise. Gently rock the plate back and forth and return the plate to CO2 incubator.		
given belo	ow, optimization is sometimes needed for different siRNAs. iRNA Transfection of Jurkat Cell	- Replace transfection medium by cell growth medium ~5 hours after transfection when necessary.		
Step I. Pre Transfectio GenMute™	paration of Working Solution of GenMute™	- Gene silencing is usually measured 24~48 hours post transfection.		

GenMute^M Transfection Buffer (5x) is provided as 5x concentrated stock solution. To make working solution, dilute one part of the stock solution with 4 parts of ddH₂O into a sterile bottle. The working solution is table at 4 °C-RT for 12 months.

Step II. Transfection of Jurkat Cells:

Use this procedure to transfect siRNA into Jurkat cells in a 24-well format. For other formats, see <u>Scaling Up or Down Transfections</u> below. All amounts and volumes are given on a per well basis.

- The day of transfection, count the cells to determine culture density. Plate $1x10^5$ cells per well in 0.5 ml of complete growth medium. Cell density should be ~70% confluent on the day of transfection.
- Note: GenMute[™] reagent is NOT interfered by serum and antibiotics, therefore serum and antibiotic containing medium can be used during the entire experiment.

Scaling Up or Down Transfections

To transfect Jurkat cells in different tissue culture formats, refer to the table below (Given on a per well basis).

Culture Vessel	Growth Medium (mL)	Cells per Well	Transfection Buffer (µL)	siRNA (pmoles) Final 40 nM	GenMute™ Reagent (µL)
96-well	100	2 x 104	10	4	0.4
24-well	500	1 x 10 ⁵	50	20	2.0
12-well	1.0	2 x 10 ⁵	75	40	4.0
6-well	2.0	5 x 10 ⁵	100	80	8.0
60 mm	4.0	8 x 10 ⁵	300	160	16
10 cm/T-75 lask	8.0	2 x 10 ⁶	800	320	32

Storage: GenMute[™] siRNA Transfection Reagent is stable for up

to 12 months at 4 °C. This item shipped at ambient temperature