BCRJ Code:	0382
Cell Line:	SW 1353
Species:	Homo sapiens
Vulgar Name:	Human
Tissue:	Bone
Morphology:	Fibroblast
Disease:	Chondrosarcoma
Growth Properties:	Adherent
Sex:	Female
Age/Ethinicity:	72 Year / Caucasian
Derivation:	The SW 1353 cell line was initiated by A. Leibovitz at the Scott and White Clinic, Temple, Texas in 1977 from a primary grade II chondrosarcoma of the right humerus obtained from a 72 year old female Caucasian.
Applications:	Transfection host
Biosafety:	1
Culture Medium:	Leibovitz's L-15 Medium and fetal bovine serum to a final concentration of 10%. The L-15 medium formulation was devised for use in a free gas exchange with atmospheric air.
Subculturing:	Remove medium, and rinse with 0.25% trypsin, 0.03% EDTA solution. Remove the solution and add an additional 1 to 2 mL of trypsin-EDTA solution. Allow the flask to sit at room temperature (or at 37°C) until the cells detach. Add fresh culture medium, aspirate and dispense into new culture flasks.

Subculturing Medium Renewal:	2 to 3 times per week
Subculturing Subcultivation Ratio:	1:02
Culture Conditions:	Atmosphere: air, 100%; carbon dioxide (CO2), 0%
Cryopreservation:	95% FBS + 5% DMSO (Dimethyl sulfoxide)
Thawing Frozen Cells:	SAFETY PRECAUTION: It is strongly recommended to always wear protective gloves, clothing, and a full-face mask when handling frozen vials. Some vials may leak when submerged in liquid nitrogen, allowing nitrogen to slowly enter the vial. Upon thawing, the conversion of liquid nitrogen back to its gas phase may cause the vial to explode or eject its cap with significant force, creating flying debris. 1. Thaw the vial by gently agitating it in a 37°C water bath. To minimize contamination, keep the O-ring and cap out of the water. Thawing should be rapid (approximately 2 minutes). 2. Remove the vial from the water bath as soon as its contents are thawed and decontaminate it by dipping in or spraying with 70% ethanol. From this point, all operations must be performed under strict aseptic conditions. 3. For cells sensitive to DMSO, it is recommended to remove the cryoprotective agent immediately. Transfer the vial contents to a centrifuge tube containing 9.0 mL of complete culture medium and centrifuge at approximately 125 × g for 5 to 7 minutes. 4. Discard the supernatant and resuspend the cell pellet in the recommended complete medium (see specific batch information for the appropriate dilution ratio). 5. Incubate the culture under appropriate atmospheric and temperature conditions (see "Culture Conditions" for this cell line). NOTE: It is important to avoid excessive alkalinity of the medium during cell recovery. To minimize this risk, it is recommended to place the culture vessel containing the growth medium in the incubator for at least 15 minutes before adding the vial contents. This allows the medium to stabilize at its normal pH (7.0 to 7.6).
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