

SUP-B15 | 305385

Product information

Description	SUP-B15 is a human B-cell precursor cell line (BCP-ALL) derived from a patient with B-cell precursor acute lymphoblastic leukemia (BCP-ALL). SUP-B15 cells are characterized by the presence of the t(12;21)(p13;p11) translocation, which results in the fusion of the BCR and ABL genes, leading to the expression of the BCR-ABL fusion protein. SUP-B15 cells are highly proliferative and are used for the study of B-cell precursor leukemia. SUP-B15 cells are also used for the study of the role of the BCR-ABL fusion protein in the pathogenesis of B-cell precursor leukemia. SUP-B15 cells are highly sensitive to imatinib, a tyrosine kinase inhibitor that targets the BCR-ABL fusion protein. SUP-B15 cells are also used for the study of the role of the BCR-ABL fusion protein in the pathogenesis of B-cell precursor leukemia.
Organism	Human
Tissue	Leukemia
Disease	B-cell precursor acute lymphoblastic leukemia (ALL)
Applications	Cell culture, drug screening, gene expression analysis, protein expression analysis, cell cycle analysis, apoptosis analysis, cell death analysis, cell growth analysis, cell morphology analysis, cell viability analysis, cell toxicity analysis, cell differentiation analysis, cell migration analysis, cell invasion analysis, cell adhesion analysis, cell signaling analysis, cell communication analysis, cell interaction analysis, cell behavior analysis, cell response analysis, cell survival analysis, cell death analysis, cell growth analysis, cell morphology analysis, cell viability analysis, cell toxicity analysis, cell differentiation analysis, cell migration analysis, cell invasion analysis, cell adhesion analysis, cell signaling analysis, cell communication analysis, cell interaction analysis, cell behavior analysis, cell response analysis, cell survival analysis
Synonyms	Sup-B15, SUPB-15, SUPB15, SupB15, SupB15W, SupB15WT

Cell characteristics

Age	8 months
Gender	Male
Ethnicity	White
Morphology	Large, round, with prominent nucleoli
Cell type	B-cell precursor
Growth properties	Highly proliferative

Storage and handling

Citation	SUP-B15 (Cell Culture Collection, Cytion: 305385)
Biosafety level	1

Product sheet

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NCBI_TaxID 9606

CellosaurusAccession CVCL_0103

XXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX

Protein expression XXXXXXXXXXXX XXXXXXXX (XXXXXXXXXXXXXXXXXX)

Antigen expression CD1a - XXXCD2 - XXXCD3 - XXXCD4 - XXXCD5 - XXXCD8 - XXXCD10 + XXXCD13 + XXXCD38 + XXXCD71 + XXXHLA DR +

Mutational profile XXXXXXXX XXXXXXXX: ABL1 + HGNC:HGNC:1014:BCR XXXXXXXX (XXXXXXXXXX) = BCR-ABL1:BCR-ABL XXXXXXXX = XXXXXXXX XXXXXXXX 1 XXXXXXXX

Karyotype 46,XY, XXXXXXXX XXXXXXXX t(9;22)(q34;q11)der(4)t(1;4)(p11;q24)der(4)t(1;4)(p11;q33)t(9;22)(q34;q11)der(10)t(3;10) XXXXXXXX XXXXXXXX

XXXXXXXXXX

Culture Medium IMDM XXX 4.5 g/L XXXXXXXX XXX 4 XXXXXXXX XXXXXXXX XXX 25 XXXXXXXX XXXXXXXX (HEPES) XXX 1.0 XXXXXXXX XXXXXXXX XXXXXXXX

Supplements XXX XXX XXXXXXXX 20% XXX XXX XXXXXXXX (FBS) XXX 0.05 XXXXXXXX XXX 2-XXXXXXXXXXXXXXXXXX

Doubling time 18 XXXXX

Seeding density XXX 2 XXX⁵ 4XXXXX/XXX

Fluid renewal 2 XXXX 3 XXXXX XXX XXXXXXXX

Freeze medium XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX XXX XXX XXXXX (XXX XXX XXX FBS) + 10% DMSO XXX XXX XXXXXXXX XXX XXXXXXXX XXXXXXXX XXX XXXXXXXX XXXXXXXX

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**Thawing and
Culturing Cells**

1. Remove the vial from liquid nitrogen storage and allow it to warm to room temperature.
2. Dilute the cell suspension into 10 ml of pre-warmed medium.
3. Transfer the cells into a T25 flask and incubate at 37 °C.
4. After 24 hours, check the cell density. If the density is below 70%, add more medium.
5. After 48 hours, check the cell density. If the density is below 80%, add more medium.
6. After 72 hours, check the cell density. If the density is below 80%, add more medium.
7. After 96 hours, check the cell density. If the density is below 80%, add more medium.
8. After 120 hours, check the cell density. If the density is below 80%, add more medium.

**Incubation
Atmosphere**

37 °C, 5% CO₂, humidified

**Shipping
Conditions**

Shipped on dry ice, -78 °C

**Storage
Conditions**

Store at -150 °C to -196 °C

RESEARCH ONLY

Sterility

The cells are supplied as a suspension in a sterile medium. The cells are not tested for mycoplasma contamination. The cells are not tested for endotoxin contamination. The cells are not tested for viral contamination. The cells are not tested for bacterial contamination. The cells are not tested for fungal contamination. The cells are not tested for parasitic contamination. The cells are not tested for any other contamination.