

# DMS-114 | 305364

## General Information

**Description**

DMS-114 is a synthetic peptide (SCLC) that mimics the structure of the SMARCA4 protein. It is used for the study of SMARCA4 function and its role in cancer. SMARCA4 is a tumor suppressor gene that encodes a protein involved in the SWI/SNF complex. Mutations in SMARCA4 are associated with various types of cancer, including lung adenocarcinoma, squamous cell carcinoma, and sarcoma. DMS-114 is a peptide that mimics the structure of the SMARCA4 protein and is used for the study of SMARCA4 function and its role in cancer. SMARCA4 is a tumor suppressor gene that encodes a protein involved in the SWI/SNF complex. Mutations in SMARCA4 are associated with various types of cancer, including lung adenocarcinoma, squamous cell carcinoma, and sarcoma. DMS-114 is a peptide that mimics the structure of the SMARCA4 protein and is used for the study of SMARCA4 function and its role in cancer.

**Organism** Human

**Tissue** Lung

**Disease** SMARCA4

**Synonyms** DMS-114, DMS114, SMARCA4 peptide 114

## Characteristics

**Age** 68 years

**Gender** Male

**Ethnicity** Caucasian

**Growth properties** Stable

## References

**Citation** DMS-114 (SMARCA4 peptide) Cytion 305364

**Biosafety level** 1

**NCBI\_TaxID** 9606

**CellosaurusAccession** CVCL\_1174

## Ordering Information

Product sheet

**XXXX DMS-114 | 305364**

**Receptors expressed** XXXXX XXXXX XXXXXXXXXXXX (EGF), XXXXX (CR3)

**Protein expression** XXXXX XXXXX XXXXX XXXXX: XXXXXXXXXXXXXXXXXXXXXXXXXXXX (XXXXXXXXXXXXXXXXXXXXXXXXXXXX, ACTH), XXXXXXXXXXX, XXXXXXXXXXX, 17 XXX XXXXXXXXXXX, XXXXXXXXXXX

**Antigen expression** Leu 7 +, My23 +, CD11b +

**Tumorigenic** XX, XXXXXXXXXXX XXXXXXXXXXX

**Mutational profile** XXXXXXXX SMARCA4, p.Glu1310Ter (c.3928G>T), XXXXXXXXXXXXXXX; XXXXXXXX PARD3B, Ex2-14del, XXXXXXXXXXXXXXX; XXXXXXXX TP53, p.Arg213

**XXXXXX**

**Culture Medium** MB 752/1 XXXXXXXX XX Weymouth (XXXX XX XXXXXXXX XXXXX XX; XXX XX XXXXXXXX XXXXXXX. XXX XXXXXXX XXX XX XXX XXXXXXX XXXXXXX XXXXXXX)

**Supplements** XXXXX XXXXXXX 10% FBS

**Dissociation Reagent** XXXXXXXX

**Fluid renewal** XXXXXXXX XXXXXXX

**Freeze medium** XXXXXXXX XXXXXXXX XXXXXXX, XXX XXXXXXXX XXXXXXX XXXXXXX XXX (XXXXX FBS) + 10% DMSO XXX XXXXXXXX XXXXXXX XXXXXXX XXXXXXX XXXXXXX, XXX C

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**Thawing and Culturing Cells**

1. **Thawing:** Thaw the vial rapidly in a 37°C water bath. Transfer the cells to a pre-warmed medium.
2. **Centrifugation:** Centrifuge the cells at 300 x g for 3 minutes at 4°C. Remove the supernatant and resuspend the cells in 100 µl of pre-warmed medium.
3. **Resuspension:** Resuspend the cells in 1 ml of pre-warmed medium. Seed the cells into a 24-well plate (150,000 cells per well) or a 96-well plate (30,000 cells per well).
4. **Medium Change:** After 24 hours, change the medium to fresh pre-warmed medium. Remove 70% of the medium.
5. **Seeding:** Seed the cells into a 15 µm x 8 µm well plate (150,000 cells per well) or a 96-well plate (30,000 cells per well).
6. **Incubation:** Incubate the cells at 37°C with 5% CO<sub>2</sub> in a humidified atmosphere.
7. **Medium Change:** After 10 days, change the medium to fresh pre-warmed medium. Remove 10% of the medium.
8. **Passaging:** Pass the cells into a new well plate. Remove 10% of the medium.

**Incubation Atmosphere** 37°C, 5% CO<sub>2</sub>, humidified

**Flask Coating** None

**Freezing Procedure** Resuspend cells in 100 µl of freezing medium. Freeze at -80°C.

**Shipping Conditions** Store at -80°C.

**Storage Conditions** Store at -150°C for 196 weeks.

**HLA**

**Sterility** Sterility testing: PCR, endotoxin, mycoplasma.