Product Data Sheet

Cyclo(Arg-Gly-Asp-D-Phe-Val)

| Cat. No.: | НҮ-Р1613 | |
|----------------------|---|---|
| CAS No.: | 137813-35-5 | н |
| Molecular Formula: | C ₂₆ H ₃₈ N ₈ O ₇ | |
| Molecular Weight: | 574.63 | |
| Sequence Shortening: | Cyclo(RGD-{d-Phe}-V) | |
| Target: | Integrin; Apoptosis | |
| Pathway: | Cytoskeleton; Apoptosis | |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. | |

| Description | Cyclo(Arg-Gly-Asp-D-Phe-Val) (Cyclo(RGDfV)) is an integrin αvβ3 inhibitor. Cyclo(Arg-Gly-Asp-D-Phe-Val) has antitumor | | |
|---------------------------|---|--|--|
| | activity. Cyclo(Arg-Gly-Asp-D-Phe-Val) can be used for the research of acute myeloid leukemia ^[1] . | | |
| IC ₅₀ & Target | ανβ3 ^[1] | | |
| In Vitro | Cyclo(Arg-Gly-Asp-d-Phe-Va and the matrix, induces the cycle-dependent agents ^[1] . MCE has not independently Cell Cycle Analysis ^[1] | yclo(Arg-Gly-Asp-d-Phe-Val) (Cyclo(RGDfV)) (35 nM, 4-24 h) disruptes the adhesion and migration between the tumor cells nd the matrix, induces the leukemia cells to leave the protective microenvironment and increases their sensitivity to cell ycle-dependent agents ^[1] . ICE has not independently confirmed the accuracy of these methods. They are for reference only. cell Cycle Analysis ^[1] | |
| | Cell Line: | MV4–11 cells | |
| | Concentration: | 35 nM | |
| | Incubation Time: | 24 h | |
| | Result: | Affected the leukemia cell cycle, decreased the G0/G1 phase of leukemia cells in the 3D and 2D culture systems and increased the S phase of leukemia cells in the 3D and 2D culture systems. | |
| | Apoptosis Analysis ^[1] | | |
| | Cell Line: | MV4–11 cells | |
| | Concentration: | 35 nM | |
| | Incubation Time: | 24 h | |
| | Result: | Increased the apoptosis rates. | |

REFERENCES

[1]. Shen ZH, et al. Targeting of the leukemia microenvironment by c(RGDfV) overcomes the resistance to chemotherapy in acute myeloid leukemia in biomimetic polystyrene scaffolds. Oncol Lett. 2016 Nov;12(5):3278-3284.

Caution: Product has not been fully validated for medical applications. For research use only.

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