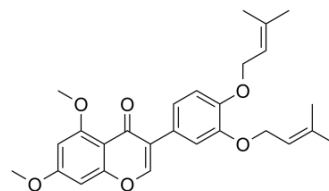


Glabrescione B

| | |
|---------------------------|---|
| Cat. No.: | HY-122590 |
| CAS No.: | 65893-94-9 |
| Molecular Formula: | C ₂₇ H ₃₀ O ₆ |
| Molecular Weight: | 450.52 |
| Target: | Gli |
| Pathway: | Stem Cell/Wnt |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | | | | | | | | | | | | | | | | | |
|-------------------------------------|--|------------|------------------|----------------|------|------------------|-------------|---------|---|------------|------------------|----------------|---------|------------------|-------------|---------|--|
| Description | <p>Glabrescione B is the first compound that binds the Hedgehog (Hh) modulator Gli1. Glabrescione B impairs its activity by interfering with Gli1-DNA interaction. Glabrescione B inhibits the growth of Hedgehog-dependent tumor cells, the self-renewal ability, and clonogenicity of tumor-derived stem cells^{[1][2]}.</p> | | | | | | | | | | | | | | | | |
| IC₅₀ & Target | <p>Gli1-DNA Interaction^[1]</p> | | | | | | | | | | | | | | | | |
| In Vitro | <p>Glabrescione B (5 μM; 24-72 hours) inhibits the growth of Gli-dependent basal cell carcinoma^[2]. Glabrescione B (1-10 μM; 24-48 hours) decreases Gli1 mRNA expression levels^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Proliferation Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>ASZ001 BCC cells</td> </tr> <tr> <td>Concentration:</td> <td>5 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24-72 hours</td> </tr> <tr> <td>Result:</td> <td>Basal cell carcinoma cell proliferation was impaired.</td> </tr> </table> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>ASZ001 BCC cells</td> </tr> <tr> <td>Concentration:</td> <td>1-10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24-48 hours</td> </tr> <tr> <td>Result:</td> <td>Gli1 mRNA expression levels was decreased.</td> </tr> </table> | Cell Line: | ASZ001 BCC cells | Concentration: | 5 μM | Incubation Time: | 24-72 hours | Result: | Basal cell carcinoma cell proliferation was impaired. | Cell Line: | ASZ001 BCC cells | Concentration: | 1-10 μM | Incubation Time: | 24-48 hours | Result: | Gli1 mRNA expression levels was decreased. |
| Cell Line: | ASZ001 BCC cells | | | | | | | | | | | | | | | | |
| Concentration: | 5 μM | | | | | | | | | | | | | | | | |
| Incubation Time: | 24-72 hours | | | | | | | | | | | | | | | | |
| Result: | Basal cell carcinoma cell proliferation was impaired. | | | | | | | | | | | | | | | | |
| Cell Line: | ASZ001 BCC cells | | | | | | | | | | | | | | | | |
| Concentration: | 1-10 μM | | | | | | | | | | | | | | | | |
| Incubation Time: | 24-48 hours | | | | | | | | | | | | | | | | |
| Result: | Gli1 mRNA expression levels was decreased. | | | | | | | | | | | | | | | | |

REFERENCES

[1]. Ingallina C, et al. Polymeric glabrescione B nanocapsules for passive targeting of Hedgehog-dependent tumor therapy in vitro. *Nanomedicine (Lond)*. 2017;12(7):711-728.

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

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