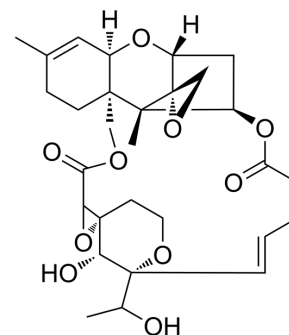


Satratoxin G

| | |
|---------------------------|---|
| Cat. No.: | HY-130476 |
| CAS No.: | 53126-63-9 |
| Molecular Formula: | C ₂₉ H ₃₆ O ₁₀ |
| Molecular Weight: | 544.59 |
| Target: | Caspase; Apoptosis |
| Pathway: | Apoptosis |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | | |
|--------------------|---|---|
| Description | Satratoxin G is a large cyclic mucor toxin. Satratoxin G induces apoptosis by activation of caspase ^{[1][2]} . | |
| In Vitro | Satratoxin G (40 nM, 6 h) induces the cleavage of caspase-3 and ADP-ribose polymerase (PARP) in HL-60 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. | |
| In Vivo | Satratoxin G (500 µg/kg, intranasal instillation) can induce the apoptosis of olfactory sensory neurons in mouse olfactory epithelium, and express IL-1α, IL-1β, IL-6, TNF-α and MIP-2 genes ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. | |
| | Animal Model: | Pathogen-free female C57Bl/6 mice ^[2] |
| | Dosage: | 500 µg/kg |
| | Administration: | intranasal instillation |
| | Result: | Up-regulated the proapoptotic genes Fas, FasL, p75NGFR, p53, Bax, caspase-3, and CAD. Increased expression of mRNAs for the cytokines TNF-α, IL-1α, IL-1β, and IL-6 as well as the chemokine MIP-2. |

REFERENCES

[1]. Nagase M, et al. Molecular mechanism of satratoxin-induced apoptosis in HL-60 cells: activation of caspase-8 and caspase-9 is involved in activation of caspase-3. *Immunol Lett.* 2002 Oct 21;84(1):23-7.

[2]. Islam Z, et al. Satratoxin G from the black mold *Stachybotrys chartarum* evokes olfactory sensory neuron loss and inflammation in the murine nose and brain. *Environ Health Perspect.* 2006 Jul;114(7):1099-107.

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

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