# Triphala

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| **Cat. No.:** | HY-114335 |
| **CAS No.:** | 857906-76-4 |
| **Target:** | NF-κB; Fungal |
| **Pathway:** | NF-κB; Anti-infection |
| **Storage:** | Powder -20°C 3 years<br>4°C 2 years<br>In solvent -80°C 6 months<br>-20°C 1 month |

Triphala

## BIOLOGICAL ACTIVITY

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| **Description** | Triphala, an Ayurvedic polyherbal formulation comprising of equiproportional fruit parts of Terminalia chebula, Terminalia bellerica, and Phyllanthus emblica[1]. Triphala inhibits NF-κB activation. Triphala exerts antifungal action[2]. Anti-adipogenic, anti-inflammatory, and anti-neoplastic activities. | |
| **$IC_{50}$ & Target** | NF-κB | Antifungal |
| **In Vitro** | Triphala regulates adipogenesis through modulation of expression of adipogenic genes in 3T3-L1 cell line. Triphala significantly decreases the adipogenesis in 3T3-L1 cells by reducing lipid accumulation and inhibiting the expression of adipogenic genes. The 3T3-L1 cells treated with Triphala show ~1.43-, 1.67-, and 2.5-fold decreases in lipid content at 1, 10, and 100 μg/mL concentrations, respectively, compared to the cells treated with induction cocktail alone. Triphala regulates lipid accumulation by down regulating expression of adipogenic genes, resulting into prevention of adipogenesis[1].<br>Triphala reduces expression of inflammatory mediators such as IL-17, COX-2, and RANKL through inhibition of NF-κB activation[2]. Triphala exerts antifungal action against Asperigillus species and has been reported to inhibit the fungus by up to 37.96% in vitro[2].<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. | |

## REFERENCES

[1]. Banjare J, et al. Triphala, Regulates Adipogenesis through Modulation of Expression of Adipogenic Genes in 3T3-L1 Cell Line. Pharmacogn Mag. 2018 Jan;13(Suppl 4):S834-S839.

[2]. Peterson CT, et al. Therapeutic Uses of Triphala in Ayurvedic Medicine. J Altern Complement Med. 2017 Aug;23(8):607-614.



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