Data Sheet (Cat.No.T13205)

TargetMol

Triphala

Chemical Properties

CAS No. : 857906-76-4

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Triphala is an Ayurvedic polyherbal formulation. Triphala inhibits NF-κB activation. Triphala exerts antifungal action, and with anti-adipogenic, anti-inflammatory, and antineoplastic activities.
Targets(IC50)	Others,NF-κB,Antifungal
In vitro	In the 3T3-L1 cell line, Triphala plays a crucial role in regulating adipogenesis by modulating the expression of adipogenic genes. It significantly mitigates adipogenesis by decreasing lipid accumulation and suppressing adipogenic gene expression. Specifically, cells treated with Triphala show approximately 1.43-, 1.67-, and 2.5-fold reductions in lipid content at concentrations of 1, 10, and 100 μg/mL, respectively, compared to controls treated with an induction cocktail alone. This regulation occurs through the downregulation of adipogenic genes, effectively preventing adipogenesis. Additionally, Triphala reduces the expression of inflammatory mediators, including IL-17, COX-2, and RANKL, by inhibiting NF-κB activation. It also demonstrates antifungal efficacy against Aspergillus species, inhibiting fungal growth by up to 37.96% in vitro.

Reference

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.

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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