

For Research Use Only

5-Feruloylquinic acid



www.ptgcn.com

Catalog Number: CM18322

产品信息

Catalog Number:
CM18322

CAS号:
40242-06-6

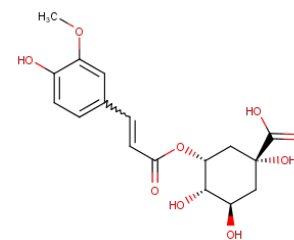
分子式:
C₁₇H₂₀O₉

主要靶点:
Tyrosinase|Sirtuin

主要通路:
DNA损伤和修复|表观遗传|蛋白酶体

分子量:
368.34

溶解度:
DMSO:33.33mg/mL (90.50 mM),Need ultrasound



体外活性

Traditional Chinese Medicine (TCM) compounds were employed for screening potent Sirt1 agonists, and molecular dynamics (MD) simulation was implemented to simulate ligand optimum docking poses and protein structure under dynamic conditions. TCM compounds such as (S)-tryptophan-betaxanthin, 5-O-Feruloylquinic acid, and RosA exhibited good binding affinity across different computational methods, and their drug-like potential were validated by MD simulation. Docking poses indicate that the carboxylic group of the three candidates generated H-bonds with residues in the protein chain from Ser441 to Lys444 and formed H-bond, π -cation interactions, or hydrophobic contacts with Phe297 and key active residue, His363. During MD, stable π -cation interactions with residues Phe273 or Arg274 were formed by (S)-tryptophan-betaxanthin and RosA[1].

描述

5-O-Feruloylquinic acid is a potent Sirt1 agonist, it is a potential lead compound that can be further tested in drug development process for diseases associated with aging.

储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years

For technical support and original validation data for this product please contact

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.