Product Data Sheet

Product Name: Modafinil
CAS No.: 68693-11-8
Cat. No.: HY-15201A
MWT: 273.35
Formula: C15H15NO2S
Purity : >98%
Solubility: DMSO > 10mg/ml

Mechanisms: Pathways:Others; Target:Others

Biological Activity:
Modafinil(CRL 40476, CEP 1538) is a central nervous system vigilance promoting agent, which possesses neuroprotective properties.
IC50 value:
Target: 
in vitro: Modafinil was found to inhibit K(Ca)3.1 currents in a concentration-dependent manner, and the half-maximal inhibition (IC(50)) of modafinil for the current inhibition was 6.8 ± 0.7 nM. The protein kinase A (PKA) activator forskolin also inhibited K(Ca)3.1 currents.In addition, modafinil relaxed blood vessels (mouse aorta and rat pulmonary artery) in a concentration-dependent manner. Modafinil increased cAMP concentrations in NIH-3T3 fibroblasts or primary cultured mouse aortic SMCs and phosphorylated K(Ca)3.1 channel protein in NIH-3T3 fibroblasts [1]. Modafinil (20 microM) inhibited the firing of dopaminergic, but not GABAergic neurons. On acutely isolated neurons, modafinil evoked D2-receptor-mediated outward...

References:

Caution: Not fully tested. For research purposes only
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