conferenceseries LLC Ltd

Elena Smilyanova et al., J Tradit Med Clin Natur 2018, Volume:7 DOI: 10.4172/2573-4555-C1-003

JOINT EVENT

Global Summit on

Traditional & Restorative Medicine

10th World Congress on Neuropharmacology

August 27-29, 2018 | Paris, France

Elena Smilyanova, Magdalena Kondeva-Burdina, Javor Mitkov and Alexander Zlatkov Medical University-Sofia, Bulgaria

Effects of newly synthetized derivatives of caffeine-8-α-methyl thioglycolic acid on the activity of human recombinant MAOB enzyme

 $N_{\mu}^{\rm EW}$ series of caffeine-8-\$\alpha\$-methyl thioglycolic acid derivatives (at concentration 1 \$\mu^{\rm H}\$M) were investigated for possible inhibiting effects on human recombinant MAOB enzyme (hMAOB). hMAOB is responsible for the formation of the neurotoxic reactive metabolites. Its inhibition could be one of the mechanisms for possible neuroprotection against some neurodegenerative disease, including Parkinson's and Alzheimer's disease. Monoamine oxidase activity assay of recombinant human MAOB was performed using a fluorometric method by Amplex UltraRed reagent. Tyramine hydrochloride was used as substrate. The effects of the compounds were compared with Selegiline (at concentration 1 \$\mu^{\rm H}\$M). All the compounds didn't revealed statistically significant inhibitory activity on the hMAOB enzyme.

Biography

Elena Smilyanova is pursuing her Pharmacy in Medical University of Sofia. She has deep interest in the sphere of Pharmacology and Toxicology. She has been keen on participating into in vitro and in vivo experiments and has contributed to gathering a deep knowledge on the following and similar topics.

elena.smilianova@abv.bg

Notes: