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Gintonin structure, a novel G protein-coupled lysophosphatidic acid (LPA) receptor ligand. increased cognition in volunteer human subjects

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ABSTRACT: Gintonin is a novel G protein-coupled lysophosphatidic acid (LPA) receptor ligand. It is a new Extract from the natural plants. Ginseng had been used one of the favorable functional food, and several investigations on *Panax ginseng* has proven to increase performance of human cognitive functions. Structure of ginsenosides have been known to be the most important component, of which functions are enhanced usually by heat treatment. On the contrary, we attempted to explore the gintonin component-an alcohol extracts without ginsenosides to assess the effect as previously reported. The tolerability and potential efficacy in 80 volunteer subjects without dementia but complained of cognitively impairment. Every participant was instructed to take gintonin 300 mg/d (1: 1 placebo controlled double blind) for 8 weeks in human subjects were safe. Dynamic Contrast Enhanced (DCE)-MRIs were taken to assess the parameters, Ktrans and Vp, the indicator of blood brain barrier (BBB) trafficking to check the any modulation of these structure. Daily consumption of gintonin were well tolerated by subjects without any adverse events. Serial improvement of error correction speeds (by Stroop test) were noted. In conclusion, gintonin, a new ginseng-derived structure is not only has the known effect for ginsenosides but can be a potential functional food for cognitive enhancement mediated by BBB trafficking that increase drug delivery.

Biography: Manho Kim has completed his PhD at the age of 32 in Seoul National University, and had MD at the age of 25. He performed Neurobiology in Harvard Medical School from 1996-1999 working as postdoctoral studies. He is the director of Neurology, a clinical researcher and traslating medicine organization. He has published more than 200 papers in reputed journals and has been serving as an editorial board member of Scientific Report, Nature Publishing Co

Publication:1. Intracranial Involvement by Metastatic Advanced Gastric Carcinoma
2.Mutant Huntingtin Expression in Clonal Striatal Cells: Dissociation of Inclusion Formation and Neuronal Survival by Caspase Inhibition
3.Analysis of Huntingtin associated protein 1 in mouse brain and immortalized striatal neurons
4.Nervous system involvement by metastatic hepatocellular carcinoma
5.Impairment of Neurite Formation in Familial ALS-associated Cu, Zn-Superoxide Dismutase Mutant Cells

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