

# Agility

D-PINITOL

## HEALTHY METABOLISM MEANS HEALTHY AGING



Here needs to be the health area

### • About Agility

Healthy aging is a major challenge in modern societies and it is menaced by the growing incidence of metabolic alterations including insulin resistance. Agility is a direct solution that contributes to achieve healthy aging thanks to its composition based on pure D-Pinitol, a natural inositol extracted from carob pods by Advenion.

Extensive preclinical and human research done by Advenion, demonstrates that D-Pinitol is capable of reducing the insulin need of the body, helping to protect the endocrine pancreas, while reducing the synthesis and storage of fat in the liver, thus facilitating the fight against liver steatosis. In addition, D-Pinitol by an unique mechanism discovered by Advenion is capable of reducing one of the key features of brain aging and neurodegeneration, the phosphorylation of the protein tau. This special activity profile of Agility indeed will contribute to a better aging through the general improvement of the metabolism in the pancreas, the liver and the brain.

D-Pinitol is a sweet orally active compound, and can be used directly or incorporated to other dietary supplements. We offer a 98% pure product produced with late state-of-the-art downstream technologies, using only a water-based process without using any organic solvent to guarantee all its natural properties while providing safety and environmental protection.

### • Striving for a Healthy Aging with Agility

- Reduce insulin needs
- Protect Endocrine Pancreas
- Improve Insulin Resistance

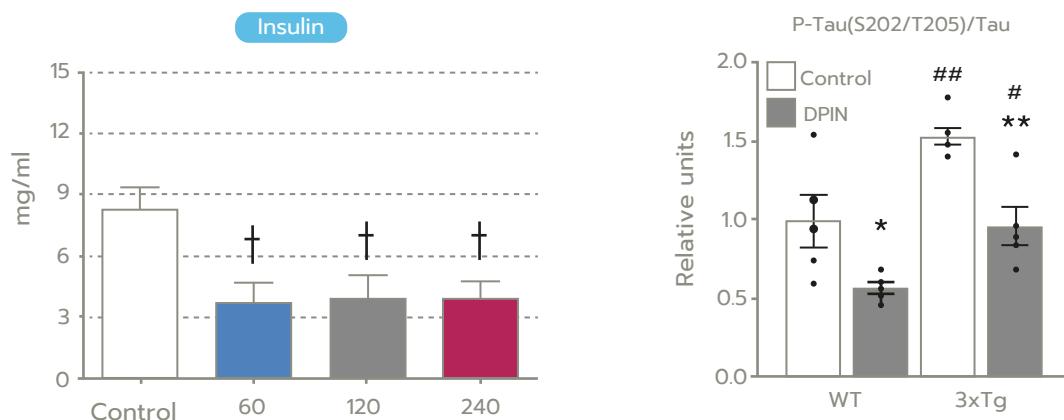
- Reduce fat synthesis and promote fat use by the liver
- Reduce liver steatosis and improve liver Health

- Improve memory loss
- Fight against neurodegeneration associated to tau protein phosphorylation

# Improving Insulin Function and reducing neurodegeneration

## • Pre-clinical trial

Insulin resistance and associated metabolic dysfunctions, including liver steatosis, are a major cause of health complications along aging. These metabolic alterations also contribute to accelerated brain aging, resulting in cognitive impairment and dementia. Agility can contribute to a healthy life style through its ability to reduce plasma insulin (Figure A, Navarro J.A. et al., *Nutrients*. 2020 Jul 8;12(7):2030.), contributing to the prevention of the unwanted consequences of insulin resistance such as diabetes type 2, liver steatosis, dyslipaemia etc...



In addition, Agility can reduce the phosphorylation of Tau protein, a relevant step towards neurodegeneration and dementia, through a novel mechanism that involves the brain CDK5 protein, as can be seen in Figure B (Medina-Vera et al. *Br J Pharmacol*. 2022 Oct;179(19):4655-4672.). These experiments were performed in an humanized mouse model of Alzheimer's Disease.

In summary, Agility offers an unique profile that indeed contributes to achieve a healthy aging, with the added value of its natural origin, safe profile and simple use.

## • Properties



**Scientific Source:** Navarro JA, et al. Endocrine and Metabolic Impact of Oral Ingestion of a Carob-Pod-Derived Natural-Syrup-Containing D-Pinitol: Potential Use as a Novel Sweetener in Diabetes. *Pharmaceutics*. 2022 Jul 30;14(8):1594. doi: 10.3390/pharmaceutics14081594.

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