

## Homeovitality Super Heart.



Use for:- Anti-aging, blood pressure, heart health, kidney health, rheumatoid arthritis, auto-immune diseases, cancer and general health improvement.

The Super Heart product has been designed to target the KL gene to help the body make more KLOTHO protein. KLOTHO protein helps everyone to stay younger longer, live a longer healthier life and keeps the heart and kidneys healthy, lowers blood pressure, stabilises the immune system, avoids and resolves diseases such as rheumatoid arthritis and other auto-immune diseases and helps protect against cancer.

Unfortunately, the amount of KLOTHO that the body produces gradually declines with age. Therefore everyone would benefit by taking the Super Heart product on a permanent basis as they get older.

### What does KLOTHO do?

KL, the gene that encodes KLOTHO, is one of the most important health promoting genes ever discovered. It was first characterised by Dr. Matsumara and his colleagues over a decade ago (1). It encodes a type-I membrane protein that is related to the beta-glucosidases.

Since its discovery, scientists have confirmed that the KL gene plays a very important role in slowing down the ageing process, helping to keep the heart and kidneys healthy and protecting against the development of many diseases (see references 2, 3 and 4). It also plays a very important role in the control of blood pressure (5).

More recently, Dr. Witkowski and co-workers showed that reduced KL activity is associated with impaired immunity and increased susceptibility to development of rheumatoid arthritis (6). These scientists demonstrated that KL plays an important role in stabilising CD4+ helper T lymphocytes, cells that promote and control the activity of the immune system

KL also helps to fight cancer. Dr. Wolf and colleagues have recently discovered that increased KL activity suppresses the growth of breast cancer cells (7). Therefore, for many reasons, particularly because KL activity declines with age (6), everyone would benefit from Homeovitality Super Heart on a permanent basis especially as they get older.

1. Matsumura et al., Identification of the human klotho gene and its two transcripts encoding membrane and secreted klotho protein. *Biochem. Biophys. Res. Commun.*, 242:626, 1998.
2. Kuro-o et al., Mutation of the mouse klotho gene leads to a syndrome resembling ageing. *Nature*, 390:457, 1997.
3. Arking et al., Association between a functional variant of the KLOTHO gene and high-density lipoprotein cholesterol, blood pressure, stroke, and longevity. *Circ. Res.*, 96:41, 2005.
4. Rosenblatt & Kuro-O. Klotho, an aging suppressor gene. *Horm. Res.*, 67:191, 2007.
5. [www.sciencedaily.com/releases/2009/08/090819164331.htm](http://www.sciencedaily.com/releases/2009/08/090819164331.htm)
6. Witkowski et al., Klotho- a common link in physiological and rheumatoid arthritis-related aging of human CD4+ lymphocytes. *J. Immunol.*, 178:771, 2007.
7. Wolf et al., Klotho: a tumour suppressor and a modulator of the IGF-1 and FGF pathways in human breast cancer. *Oncogene*, 27:7094, 2008.