



## LIPO Injection

### Overview

Lipotropes are compounds that may aid in the breakdown of body fat by acting on lipid metabolism and synthesis pathways. When used in combination with lifestyle modifications such as exercise and diet, lipotropic compounds may promote fat and weight loss. The lipotropic agents in this injection are methionine and choline. While each may individually affect the mobilization of fats, the combination may provide synergistic benefits

**Methionine:** Methionine plays an important role in lipid metabolism, polyamine synthesis, immune function, heavy metal chelation, and maintenance of redox balance. The lipotropic effects of methionine may be attributed to its metabolite S-adenosyl methionine (SAM). SAM is synthesized from methionine via an energy-consuming reaction. SAM administered orally or by injection has been investigated as a treatment for liver diseases, osteoarthritis, and depression

**Choline:** Choline is an essential nutrient required for optimal functioning of various tissues including the liver, muscles, and brain. Since choline breaks down fat as an energy source, choline supplementation causes rapid fat and weight loss in female athletes. Choline also undergoes acetylation to form the neurotransmitter acetylcholine. Choline deficiency causes hepatic steatosis (fatty liver disease) and leads to loss of muscle membrane integrity. Chronic choline deficiency may also increase the risk of developing cancer.

**Inositol:** Inositol is a form of sugar your body naturally produces to provide structure to your cells. In addition to playing a role in the development of your cell membranes, inositol may also have an effect on insulin and certain chemical messengers in your brain. This may influence your body's ability to manage metabolic and mental health conditions.

**Pyridoxine (Vitamin B6):** Pyridoxine, also known as Vitamin B6, is important in maintaining the health of our nerves, skin, and red blood cells. Adequate levels of vitamin B6 are necessary to produce neurotransmitters which play an important role in regulating your mood.

**Possible Side Effects:** Pain or soreness at the site of injection. Diarrhea, constipation, anxiety, increased heart rate, insomnia, incontinence, dry mouth, fatigue, or numbness of hands or feet. Report immediately if you experience any rash, hives, itchiness, shortness of breath, or other symptoms of allergic reaction(s).