

Drug Status Report

Drug: 1-GH-1

This product is used as a supplement for bodybuilders

Drug Name Status: 1-GH-1 is the brand name of a Legal Gear product.

Ingredients:

GH Secretagogue Complex; Arginine Pyroglutamate; Onithine AKG; Murcuna Puriens (standardized for 99% L-Dopa); Astragalus Membranaceus (Root); L-Lysine

Canadian Status:

Growth Hormone Secretagogues (GHS) are a family of peptidergic and nonpeptidergic compounds that are potent stimulators of growth hormone secretion. GHSs were developed based on the observation that metabolic fragments of opiate peptides stimulate growth hormone (GH) secretion. Growth hormone releasing hormone (GHRH) stimulates GH secretion from somatotroph cells of the anterior pituitary via a pathway that involves GHRH receptor activation of adenylyl cyclase and increased cAMP production. The actions of GHRH to release GH can be augmented by the synthetic GH secretagogues (GHS)¹. The substances are not subject to the CDSA.

Arginine pyroglutamate is the L-arginine salt of pyroglutamic acid. It is also known as pirglutargine and arginine pidolate. Arginine is one of the 20 common amino acids. Pyroglutamate is formed in the body by the cyclization of the amino acid glutamic acid and is found naturally in plant and animal products. It is not subject to the CDSA.

Onithine AKG is the alpha-ketoglutaric acid (2-keto-1,5-pentanedioic acid) salt of ornithine. Ornithine is not an amino acid coded for by DNA; however, ornithine is one of the products of the action of the enzyme arginase on L-arginine, creating urea. The substance is not subject to the CDSA.

Murcuna puriens is misspelled by the company. Mucuna pruriens seed powder contains high concentrations of levodopa (L-Dopa). Levodopa and its salts are listed on Part I of Schedule F to the Food and Drug Regulations.

Astragalus Membranaceus is purported to improve immune function. It is used in traditional Chinese medicines.

L-Lysine is an essential amino acid.

Recommendation: None of the declared ingredients in 1-GH-1 are subject to the CDSA. The product is not subject to the CDSA.

August 28, 2007

¹ SR Cunha and KE Mayo, Endocrinology Vol. 143, No. 12 4570-4582, 2002