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Formoterol Fumarate Oral

National Cancer Institute

Source

National Cancer Institute. *Formoterol Fumarate Oral*. NCI Thesaurus. Code C85467.

The orally bioavailable fumarate salt of formoterol, a long-acting, selective beta2-adrenergic receptor agonist with bronchodilating and potential anti-cachexia and anabolic activities. In addition to formoterol's bronchodilating activity, formoterol exhibits anti-cachexia activity through the inhibition of the ATP-ubiquitin-dependent proteolytic system, which may result in a decrease in protein degradation and muscle cell apoptosis. In addition, formoterol may also increase insulin-like growth factor (IGF) signaling, resulting in an increase in protein synthesis. This agent may also inhibit the calcium-dependent calpain system, resulting in the inhibition of muscle wasting.