



LKT Laboratories, Inc.

Formoterol Fumarate Dihydrate

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Product Information

Product ID F5868

CAS No. 183814-30-4

Chemical Name rel-N-[2-Hydroxy-5-[(1R)-1-hydroxy-2-[[[(1R)-2-(4-methoxyphenyl)-1-methylethyl]amino]ethyl]phenyl]-formamide fumarate dihydrate

Synonym Formoterol Fumarate Dihydrate, Atock, Foradil, Oxeze

Formula (C₁₉H₂₄N₂O₄)₂ • C₄H₄O₄ •

Formula Wt. 840.91

Melting Point 138-140 °C

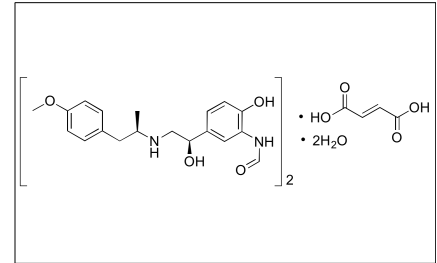
Purity ≥98%

Solubility

Store Temp -20 °C

Ship Temp Ambient

Description Formoterol is a long-acting β₂-adrenergic receptor agonist that is clinically used to treat asthma and chronic obstructive pulmonary disease (COPD). Formoterol exhibits bronchodilatory, anti-asthma, and anti-obesity activities. In a clinical setting, formoterol increases resting energy expenditure, fat utilization, and mitochondrial biogenesis; it also increases mitochondrial expression of NADH dehydrogenase and ATP synthase.



Bulk quantities available upon request

Product ID	Size
F5868	5 mg
F5868	10 mg
F5868	50 mg

References Lee P, Day RO, Greenfield JR, et al. Formoterol, a highly β₂-selective agonist, increases energy expenditure and fat utilisation in men. *Int J Obes (Lond)*. 2013 Apr;37(4):593-7. PMID: 22641064.

Wills LP, Trager RE, Beeson GC, et al. The β₂-adrenoceptor agonist formoterol stimulates mitochondrial biogenesis. *J Pharmacol Exp Ther*. 2012 Jul;342(1):106-18. PMID: 22490378.

Rider CF, King EM, Holden NS, et al. Inflammatory stimuli inhibit glucocorticoid-dependent transactivation in human pulmonary epithelial cells: rescue by long-acting beta₂-adrenoceptor agonists. *J Pharmacol Exp Ther*. 2011 Sep;338(3):860-9. PMID: 21622733.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.