



LKT Laboratories, Inc.

Irbesartan

Phone: 888-558-5227

651-644-8424

Fax: 888-558-7329

Email: getinfo@lktlabs.com

Web: lktlabs.com

Product Information

Product ID I6804

CAS No. 138402-11-6

Chemical Name 2-Butyl-3-[[2'-(1H-tetrazol-5-yl)[1,1'-biphenyl]-4-yl]methyl]-1,3-diazaspiro[4,4]non-1-en-4-one

Synonym Aprovel, Avapro

Formula C₂₅H₂₈N₆O

Formula Wt. 428.53

Melting Point 180-181 °C

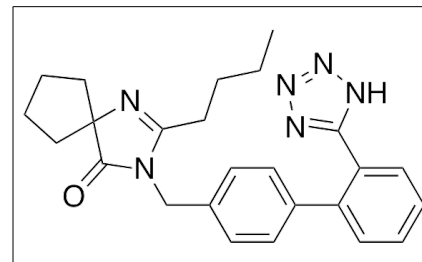
Purity ≥98%

Solubility

Store Temp Ambient

Ship Temp Ambient

Description Irbesartan is an angiotensin II type 1 (AT1) receptor inhibitor that also activates PPAR γ receptors; it exhibits antihypertensive, cardioprotective, and anti-hyperlipidemic activities. In angiotensin-converting enzyme 2 (ACE2)-deficient mice, irbesartan decreases TGF- β 1, atrial natriuretic factor, collagen, and phospho-ERK1/2 expression and increases PPAR γ expression, reversing cardiac hypertrophy and myocardial fibrosis. In animal models of angiotensin II (ATII)-mediated abdominal aortic aneurysm, irbesartan prevents macrophage infiltration, pro-inflammatory cytokine release, smooth muscle attenuation, and medial elastolysis, and also limits aneurysm enlargement. In obese hypertensive rats, this compound decreases plasma levels of free fatty acids, triglycerides, and insulin; it also upregulates expression of hepatic PPAR α . In high fat diet rats, irbesartan decreases body weight and adipose tissue weight and improves glucose metabolism and vascular function. TEST!!!!!!



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
I6804	50 mg	\$40.00
I6804	1 g	\$44.40
I6804	5 g	\$77.40
I6804	25 g	\$295.50

References Zhang ZZ, Shang QH, Jin HY, et al. Cardiac protective effects of irbesartan via the PPAR-gamma signaling pathway in angiotensin-converting enzyme 2-deficient mice. *J Transl Med.* 2013 Sep 25;11(1):229. PMID: 24067190.

Iida Y, Xu B, Schultz GM, et al. Efficacy and mechanism of angiotensin II receptor blocker treatment in experimental abdominal aortic aneurysms. *PLoS One.* 2012;7(12):e49642. PMID: 23226500

Rong X, Li Y, Ebihara K, et al. Irbesartan treatment up-regulates hepatic expression of PPAR α and its target genes in obese Koletsky (fa(k)/fa(k)) rats: a link to amelioration of hypertriglyceridaemia. *Br J Pharmacol.* 2010 Aug;160(7):1796-807. PMID: 20649581

de las Heras N, Martín-Fernández B, Miana M, et al. The protective effect of irbesartan in rats fed a high fat diet is associated with modification of leptin-adiponectin imbalance. *J Hypertens Suppl.* 2009 Aug;27(6):S37-41. PMID: 19633450.

Siragy H. Angiotensin II receptor blockers: review of the binding characteristics. *Am J Cardiol.* 1999 Nov 18;84(10A):3S-8S. PMID: 10588088.

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