Product Information



Bezafibrate

Item No. 10009145

Formal Name: $2-[4-[2-[(4-chlorobenzoyl)amino]ethyl]$ phenoxy]-2-methyl-propanoic acidSynonyms:Benzofibrate, BM 15075, Bezalip, Bezatrol, DifaterolMF: $C_{19}H_{20}CINO_4$ FW:FW:361.8 98%Purity: $\geq 98\%$ Stability: ≥ 2 years at -20°CSupplied as:A crystalline solid UV/Vis.:UV/Vis.: λ_{max} : 229 nm	CAS Registry No.:	410)9-0/-0	
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UV/Vis.: λ_{max} : 229 nm	Supplied as:	A crystalline solid	
	UV/Vis.:	λ_{max} : 229 nm	

Laboratory Procedures

For long term storage, we suggest that bezafibrate be stored as supplied at -20°C. It should be stable for at least two years. Bezafibrate is supplied as a crystalline solid. A stock solution may be made by dissolving the bezafibrate in an organic solvent purged with an inert gas. Bezafibrate is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of bezafibrate in ethanol is approximately 3 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Bezafibrate is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, bezafibrate should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Bezafibrate has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Bezafibrate is a well established pan-peroxisome proliferator-activated receptor (pan-PPAR) activator. This fibrate drug has over 25 years of therapeutic use with a good safety profile. The fibrate class of drugs are generally known as PPARa agonists, but bezafibrate appears to activate PPAR δ and PPAR γ as well. Bezafibrate activates human PPAR α , PPAR δ , and PPAR γ with EC₅₀ values of 50, 20, and 60 μ M, respectively, in a cell-based transcription assay.¹ Bezafibrate is used to treat hyperlipidemia. It helps lower low-density lipoprotein cholesterol and triglycerides while raising high-density lipoprotein cholesterol levels. It also improves insulin sensitivity and reduces blood glucose levels, which in combination with the cholesterol effects significantly lowers the incidence of cardiovascular events and development of diabetes in patients with features of metabolic syndrome.²

References

- 1. Willson, T.M., Brown, P.J., Sternbach, D.D., et al. The PPARs: From orphan receptors to drug discovery. J. Med. Chem. 43(4), 528-550 (2000).
- 2. Tenenbaum, A., Motro, M., and Fisman, E.Z. Dual and pan-peroxisome proliferator-activated receptors (PPAR) co-agonism: The bezafibrate lessons. Cardiovascular Diabetology 4(14), 1-5 (2005).

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