



LKT Laboratories, Inc.

Rutaecarpine, synthetic

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Product Information

Product ID R8179
CAS No. 84-26-4
Chemical Name 8,13-Dihydroindolo[2',3':3,4]pyrido[2,1-b]quinazolin- 5(7H)-one

Synonym Rutecarpine

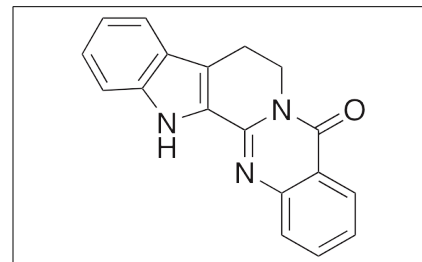
Formula C₁₈H₁₃N₃O
Formula Wt. 287.32
Melting Point 259.5-260°C
Purity ≥98%

Solubility Soluble in alcohol, benzene, chloroform and ether. Practically insoluble in water.

Store Temp 4°C

Ship Temp Ambient

Description Rutaecarpine is an indoloquinazoline alkaloid originally found in *Evodia*; it exhibits anti-inflammatory, anti-atherosclerotic, cardioprotective, anorexigenic, and anti-obesity activities. Rutaecarpine inhibits COX-2 and also decreases food intake, weight gain, and serum glucose, leptin, and insulin levels in vivo by inhibiting expression of neuropeptide Y and AgRP. Rutaecarpine also inhibits accumulation of macrophages and cholesterol in atherosclerotic lesions and increases cholesterol excretion in other animal models. Additionally, rutaecarpine inhibits hypoxia-induced production of ROS and lactate dehydrogenase and suppresses apoptosis in myocytes. In other cellular models, rutaecarpine decreases corticosterone production, potentially through inhibition of cAMP, 3β-hydroxysteroid dehydrogenase, and 11β-hydroxylase activity. Rutaecarpine also inhibits production of ROS, NO, and iNOS, potentially through inhibition of NADPH oxidase. In macrophages, rutaecarpine inhibits arachidonic acid release and decreases production of prostaglandin E₂ (PGE₂); in other in vitro models, it inhibits collagen-stimulated formation of thromboxane B₂ and inosine monophosphate.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
R8179	25 mg	\$92.00
R8179	100 mg	\$191.50
R8179	250 mg	\$408.50
R8179	1 g	\$865.50

References Xu Y, Liu Q, Xu Y, et al. Rutaecarpine suppresses atherosclerosis in ApoE^{-/-} mice through up-regulating ABCA1 and SR-BI within RCT. *J Lipid Res.* 2014 Jun 7. [Epub ahead of print]. PMID: 24908654.

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