



LKT Laboratories, Inc.

Rofecoxib

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Product Information

Product ID R5722

CAS No. 162011-90-7

Chemical Name 4-[4-(Methylsulfonyl)-phenyl]-3-phenyl-2(5H)-furanone

Synonym Vioxx

Formula C₁₇H₁₄O₄S

Formula Wt. 314.36

Melting Point 207-208 °C

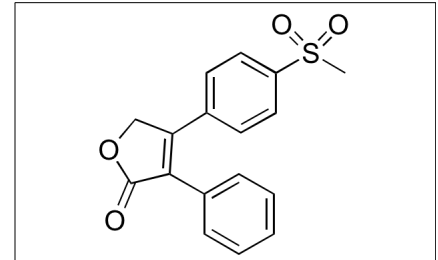
Purity ≥98%

Solubility Slightly soluble in methanol and acetone. Insoluble in water.

Store Temp Ambient

Ship Temp Ambient

Description Rofecoxib is a non-steroidal anti-inflammatory drug (NSAID) that selectively inhibits COX-2; it exhibits anti-inflammatory, analgesic, antiepileptic/anticonvulsant, and chemopreventive activities but is no longer clinically administered. Rofecoxib inhibits the formation of bladder tumors in FHIT models of bladder cancer carcinogenesis. Additionally, rofecoxib increases seizure threshold in an adenosine-dependent manner in vivo.



Bulk quantities available upon request

Product ID	Size
R5722	100 mg
R5722	250 mg
R5722	1 g
R5722	5 g

References D'Arca D, LeNoir J, Wildemore B, et al. Prevention of urinary bladder cancer in the FHIT knock-out mouse with Rofecoxib, a Cox-2 inhibitor. *Urol Oncol.* 2010 Mar-Apr;28(2):189-94. PMID: 19372053.

Akula KK, Dhir A, Kulkarni SK. Rofecoxib, a selective cyclooxygenase-2 (COX-2) inhibitor increases pentylentetrazol seizure threshold in mice: possible involvement of adenosinergic mechanism. *Epilepsy Res.* 2008 Jan;78(1):60-70. PMID: 18054463.

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