# PRODUCT INFORMATION

## SKF 86002

*Item No. 30202*

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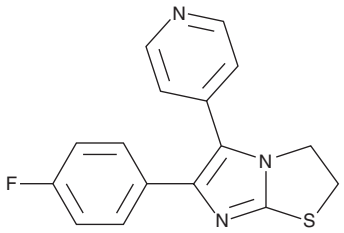
| **CAS Registry No.:** | 72873-74-6 |
| **Formal Name:** | 6-(4-fluorophenyl)-2,3-dihydro-5-(4-pyridinyl)-imidazo[2,1-b]thiazole |
| **MF:** | $C_{16}H_{12}FN_3S$ |
| **FW:** | 297.4 |
| **Purity:** | ≥98% |
| **UV/Vis.:** | $\lambda_{max}$: 238 nm |
| **Supplied as:** | A crystalline solid |
| **Storage:** | -20°C |
| **Stability:** | ≥2 years |




*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

### Description

SKF 86002 is an anti-inflammatory agent.[1-4] It inhibits rat seminal vesicle prostaglandin $H_2$ ($PGH_2$) synthase ($IC_{50}$ = 120 µM), as well as prostanoid production by rat basophilic leukemia (RBL-1) cells and human monocytes ($IC_{50}$s = 70 and 1 µM, respectively).[1] SKF 86002 inhibits leukotriene $B_4$ ($LTB_4$) and $LTC_4$ production induced by A23187 (Item No. 11016) in human neutrophils and monocytes, respectively ($IC_{50}$ = 20 µM for both). It also inhibits LPS-induced IL-1 production in human monocytes ($IC_{50}$ = 1.3 µM).[2] SKF 86002 (10, 30, and 90 mg/kg) reduces hindleg volume in rat models of adjuvant- or collagen-induced arthritis.[3] It also decreases serum levels of TNF-α and increases survival in a mouse model of LPS and galactosamine-induced endotoxic shock when administered at a dose of 100 mg/kg.[4]

### References


1. Griswold, D.E., Marshall, P.J., Webb, E.F., *et al.* SK&F 86002: A structurally novel anti-inflammatory agent that inhibits lipoxygenase- and cyclooxygenase-mediated metabolism of arachidonic acid. *Biochem. Pharmacol.* **36(20)**, 3463-3470 (1987).
2. Lee, J.C., Griswold, D.E., Votta, B., *et al.* Inhibition of monocyte IL-1 production by the anti-inflammatory compound, SK&F 86002. *Int. J. Immunopharmacol.* **10(7)**, 835-843 (1988).
3. DiMartino, M.J., Griswold, D.E., Berkowitz, B.A., *et al.* Pharmacologic characterization of the antiinflammatory properties of a new dual inhibitor of lipoxygenase and cyclooxygenase. *Agents Actions* **20(1-2)**, 113-123 (1987).
4. Badger, A.M., Olivera, D., Talmadge, J.E., *et al.* Protective effect of SK&F 86002, a novel dual inhibitor of arachidonic acid metabolism, in murine models of endotoxin shock: Inhibition of tumor necrosis factor as a possible mechanism of action. *Circ. Shock* **27(1)**, 51-61 (1989).





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