Tryptanthrin

Inhibitor of prostaglandin and leukotriene synthesis

Potent inhibitor of prostaglandin and leukotriene synthesis in various cell lines. Selective inhibitor of cyclooxygenase 2 (COX-2). Inhibitor of inducible nitric oxide synsthase (iNOS; NOS II) expression. Inhibits the production of IFN-γ and IL-2 after stimulation of Peyer's patch lymphocytes with *staphylococcal* enterotoxin B (SEB). Inhibits P-glycoprotein (Pgp) (expressed by the MDR1 gene) and reverses doxorubicin (Prod. No. BML-GR319) resistance on breast cancer cells.

Tryptanthrin occurs as a natural product in various plants: *Isatis tinctoria, I. indigotica, Polygonum tinctorium, Couroupita guianensis, Wrightia tinctoria, Calanthe discolor, Phaius mishmensis, Strobilanthes cusia.*

Citations: 10 View Online »

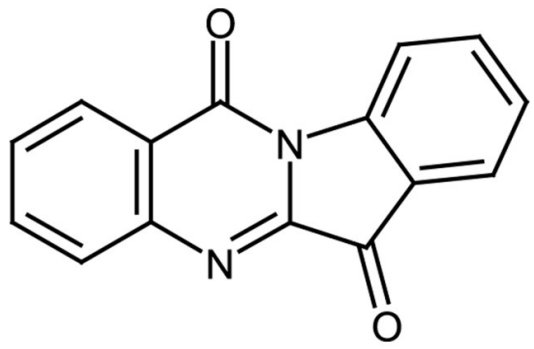
Ordering Information

Order Online »

ALX-270-360-M005	5mg

Manuals, SDS & CofA

View Online »


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Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Stable for at least 2 years after receipt when stored at +4°C in the dark. Stock solutions made in DMSO must be stored in the dark no longer than one month.
Handling	Protect from light and moisture.
Long Term Storage	+4°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Appearance	Yellow needles.
CAS	13220-57-0
Couple Target	COX, Lipoxygenase
Couple Type	Inhibitor
Formula	$C_{15}H_8N_2O_2$
Identity	Determined by 1H-NMR, 13C-NMR, IR, MS and UV.
MW	248.2
Purity	≥98% (1H-NMR, HPLC)
Solubility	Soluble in DMSO (8mg/ml) or methanol (0.3mg/ml); sparingly soluble in water (2.5µg/ml).
Source	Synthetic.

Last modified: May 29, 2024

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