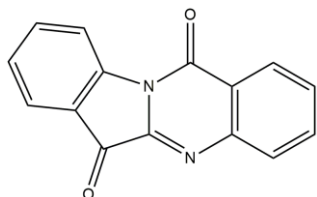


Tryptanthrin

ALTERNATE NAMES: indolo[2,1-b]quinazoline-6,12-dione; NSC 349447; Courouptine a; 11-hydrobenzo[d]quinazolino[3,2-a]azolidine-6,12-dione

CATALOG #: B2951-5 5 mg
B2951-25 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₅H₈N₂O₂

MOLECULAR WEIGHT: 248.24

CAS NUMBER: 13220-57-0

APPEARANCE: Solid

PURITY: ≥95%

SOLUBILITY: ~2 mg/ml in DMSO

DESCRIPTION: Tryptanthrin is an alkaloid isolated from various plants and shows antimicrobial activity. It inhibits both 5-lipoxygenase and cyclooxygenase-2 with IC₅₀ values of 600 nM and 64 nM, respectively. It suppresses angiogenesis by targeting the VEGFR2-mediated ERK1/2 signalling pathway.

STORAGE TEMPERATURE: -20°C. Store in the dark. Product is light sensitive.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCES:

1. Danz, H., Stoyanova, S., Wippich, P., et al. Identification and isolation of the cyclooxygenase-2 inhibitory principle in *Isatis tinctoria*. *Planta.Med.* 67(5), 411-416 (2001).
2. Pergola, C., Jazzar, B., Rossi, A., et al. On the inhibition of 5-lipoxygenase product formation by tryptanthrin: Mechanistic studies and efficacy in vivo. *Br. J. Pharmacol.* 165(3), 765-776 (2012).
3. Liao, X., Zhou, X., Mak, N.K., et al. Tryptanthrin inhibits angiogenesis by targeting the VEGFR2-mediated ERK1/2 signalling pathway. *PLoS One* 8(12) (2013).

RELATED PRODUCTS:

NDGA (Cat. No. 2581)
6-Gingerol (Cat. No. 2507)
Ciclopirox (Cat. No. B2079)
Zileuton (Cat. No. B2314)
Curcumin, *Curcuma longa* (High Purity) (Cat. No. 1850)

DISCLAIMER: **FOR RESEARCH USE ONLY! Not to be used on humans.**