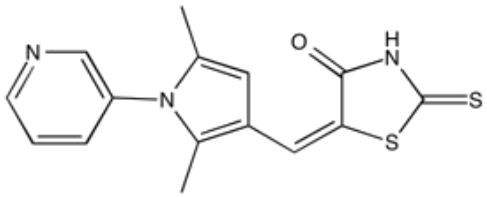
Catalog # 10-1456

Optovin

CAS# 348575-88-2

5-[[2,5-Dimethyl-1-(3-pyridinyl)-1H-pyrrol-3-yl]methylene]-2-thioxo-4-thiazolidinone

Lot # X106456



Reversible, photoactive TRPA1 activator. Optovin stimulates human TRPA1 channels and enables repeated photoactivation of motor behaviors in wild-type zebrafish (EC_{50} = 2 µM) and mice, *in vivo*. Photodetection is performed by sensory neurons expressing the TRPA1 cation channel which is activated via structure-dependent photochemical reactions with redox-sensitive cysteine residues.[1]

1) Kokel *et al*. (2013), *Photochemical activation of TRPA1 channels in neurons and animals*; Nat. Chem. Biol., **9** 257

PHYSICAL DATA

Molecular Weight:	315.41
Molecular Formula:	$C_{15}H_{13}N_3OS_2$
Purity:	98% by TLC NMR: (Conforms)
Solubility:	DMSO (up to 30 mg/ml).
Physical Description:	Tan solid
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 2 months.

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