

Optovin, TRPA1 channel activator

Catalog	Unit
TBI1456-5MG	5 mg
TBI1456-25MG	25 mg

Product Details

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

Molecular Formula: C₁₅H₁₃N₃OS₂

Formula Weight: 315.41

CAS Number: 348575-88-2

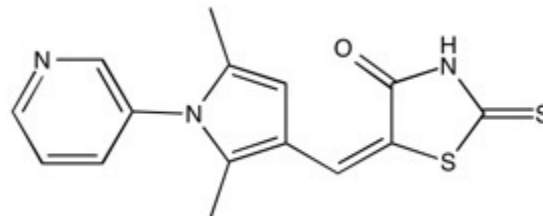
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 30 mg/ml).

Storage: -20°C

Stability: ≥ 1 year.



Applications

TRPA1 channel activator

Functions

Reversible, photoactive TRPA1 activator. Optovin stimulates human TRPA1 channels and enables repeated photoactivation of motor behaviors in wild-type zebrafish (EC₅₀ = 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.

Application Procedures

First dissolved in DMSO (up to 30 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 2 months.

For research use only.