

TH301, CRY2 stabilizer (selective)

Catalog	Unit
TBI3909-5MG	5 mg
TBI3909-25MG	25 mg

Product Details

Formal Name: 1-(4-Chlorophenyl)-N-[2,6-dihydro-2-(4-methoxyphenyl)-5,5-dioxido-4H-thieno[3,4-c]pyrazol-3-yl]cyclopentanecarboxamide

Molecular Formula: C₂₄H₂₄ClN₃O₄S

Formula Weight: 486.00

CAS Number: 450338-32-6

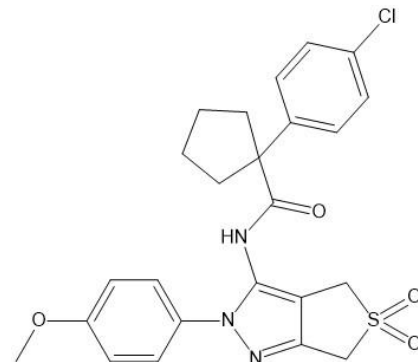
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 25 mg/ml)

Storage: -20°C

Stability: ≥ 1 year.



Applications

CRY2 stabilizer (selective)

Functions

An isoform-selective stabilizer of the circadian clock protein CRY2. Dose-dependently lengthened the circadian period in Bmal1-dLuc and Per2-dLuc reporter cells. Has been used in combination with CRY1 stabilizer KL101 to demonstrate the differential gatekeeper conformations of the two proteins. TH301 strongly enhanced rosiglitazone-dependent brown adipocyte differentiation revealing the importance of CRY-dependent regulation of energy metabolism and a possible new lead for anti-obesity therapeutics.

Application Procedures

First dissolved in DMSO (up to 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.