
Catalog	Unit
TBI1431-5MG	5 mg
TBI1431-25MG	25 mg

Product Details

Formal Name: Methyl-N-[(4-chlorophenyl)sulfonyl]-4-nitrobenzenesulfinimidoate

Molecular Formula: C₁₃H₁₁ClN₂O₅S₂

Formula Weight: 374.80

CAS Number: 7134-19-2

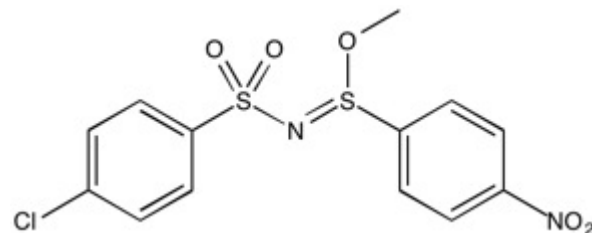
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 60 mg/ml), or in Ethanol (up to 5 mg/ml with warming).

Storage: -20°C

Stability: ≥ 2 years.



Applications

RGS4 inhibitor

Functions

The first selective non-peptide inhibitor of the regulator of G protein signaling protein subtype RGS4. It covalently modifies RGS4 by inhibiting its interaction with Gα (IC₅₀ = 3-5 μM) and suppressing GTPase activity. Intratympanic administration of CCG-4986 was shown to rescue cochlear injury and hearing loss induced by acoustic overexposure and represents a novel paradigm for the treatment of sensorineural hearing loss via pharmacological regulation of GPCR signaling. A novel tool for exploring the involvement of RGS4 in physiological processes.

Application Procedures

First dissolved in DMSO (up to 60 mg/ml), or in Ethanol (up to 5 mg/ml with warming), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

For research use only.