
Catalog	Unit
TBI5493-5MG	5 mg
TBI5493-25MG	25 mg

Product Details

Formal Name: N-[(4-Chlorophenyl)methyl]-N-[(5-nitro-2-thienyl)methyl]-glycine, 1,1-dimethylethyl ester

Alternate Names: SR-6452

Molecular Formula: C₁₈H₂₁ClN₂O₄S

Formula Weight: 396.90

CAS Number: 1216744-19-2

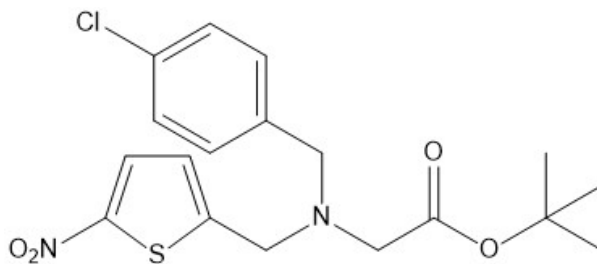
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (50 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

Rev-Erbalpha agonist

Functions

GSK4112 is a selective Rev-Erb α agonist (EC₅₀=250 nM). It induces circadian clock phase shifts in isolated primary lung fibroblasts as well as in lung slices (10 μ M). GSK4112 showed an inhibitory effect on the amplitude of circadian oscillations and caused an arrhythmic expression of canonical clock genes. In murine RAW264 macrophages it suppressed inflammatory functions via repressing Ccl2 expression. It protected RANKL-induced bone loss via inhibition of osteoclast differentiation in vivo.

Application Procedures

First dissolved in DMSO (50 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.