

Catalog	Unit
TBI1445-5MG	5 mg
TBI1445-25MG	25 mg

Product Details

Formal Name: 1-(1-(5,6,7,8-Tetrahydro-4H-cyclohepta[b]thiophene-2-carbonyl)piperidin-4-yl)-1H-benzo[d]imidazole-2(3H)-one

Molecular Formula: C₂₂H₂₆N₃O₂S

Formula Weight: 396.53

CAS Number: 924377-85-5

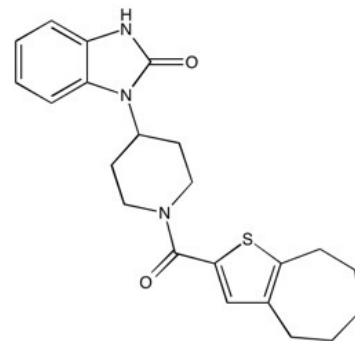
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 50 mg/ml) or in Ethanol (up to 25 mg/ml with warming)

Storage: RT

Stability: ≥ 2 years.



Applications

TRPC3/6 activator

Functions

TRPC3 activator. In whole-cell patch-clamp experiments in HEK293 cells transfected with recombinant human TRPC3 or TRPC6, GSK-1702934A activated the TRPC3 and TRPC6 current with EC₅₀ of 0.08 μM and 0.44 μM respectively. In the rat cardiomyocyte-like cell line H9C2 GSK-1702934A (1 μM) activated TRPC6-like current and was completely blocked by GSK-417651A. It transiently increased the perfusion pressure of isolated rat heart retrogradely perfused via aortic cannulation at 1 μM. Induces pro-arrhythmic and inotropic effects in TRPC3-overexpressing monocytes.

Application Procedures

First dissolved in DMSO (up to 50 mg/ml) or in Ethanol (up to 25 mg/ml with warming), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months.

For research use only.