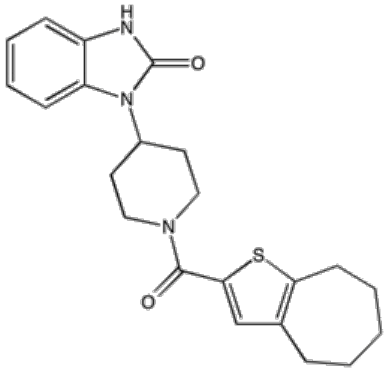
**Catalog # 10-1445**
**GSK-1702934A**
CAS# 924377-85-5



TRPC3 activator. In whole-cell patch-clamp experiments in HEK293 cells transduced with recombinant human TRPC3 or TRPC6, GSK-1702934A activated the TRPC3 and TRPC6 current with $EC_{50}$ of 0.08 μM and 0.44 μM respectively. In the rat cardiomyocyte-like cell line H9C2 GSK-1702934A (1μM) 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 1μM.[1] Induces pro-arrhythmic and inotropic effects in TRPC3-overexpressing monocytes.[2]


1) Xu et al. (2013) *Characterization of Small Molecule TRPC3 and TRPC6 Agonists and Antagonists; Proceedings of the Biophysical Soc.*. **104(2)** 454a
2) Doleschal *et al.* (2015) *TRPC3 contributes to regulation of cardiac contractility and arrhythmogenesis by dynamic interaction with NCX1.*; Cardiovasc. Res., **106** 163


## PHYSICAL DATA

| | |
|---|---|
| Molecular Weight: | 395.52 |
| Molecular Formula: | $C_{22}H_{25}N_3O_2S$ |
| Purity: | 98% by TLC (5% $CH_3OH$ in $CH_2Cl_2$, $R_f$=0.34) |
| | NMR: (Conforms) |
| Solubility: | DMSO (up to 50 mg/ml) or Ethanol (up to 25 mg/ml with warming) |
| Physical Description: | Off-white solid |
| Storage and Stability: | Store as supplied desiccated at room temperature for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months. |

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