

Product Data Sheet

Product Name: Calcium Influx Inducer Compound 634

Cat. No.: GC91992

Chemical Properties

Cas. No. 882291-37-4

Chemical Name 2-[(2,1,3-benzothiadiazol-4-ylsulfonyl)amino]-4,5-dimethyl-3-thiophenecarboxylic acid, ethyl ester

SMILES O=S(NC1=C(C(OCC)=O)C(C)=C(C)S1)(C2=CC=CC3=NSN=C32)=O

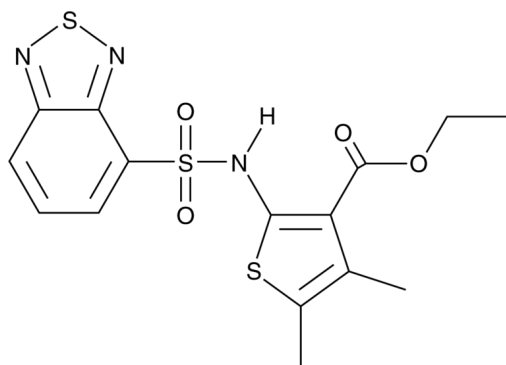
Formula $C_{15}H_{15}N_3O_4S_3$ M.Wt 397.5

Solubility Acetonitrile: Slightly soluble: 0.1-1 mg/ml, DMSO: Sparingly soluble: 1-10 mg/ml, Water: Slightly soluble: 0.1-1 mg/ml Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Calcium influx inducer compound 634 is an inducer of calcium influx.¹ It enhances the release of extracellular vesicles (EVs) from mouse bone marrow-derived dendritic cells (mBMDCs) when used at a concentration of 10 μM. Calcium influx inducer compound 634 (10 μM) also increases the levels of CD86 and CD80 on the surface of mBMDCs, an effect that can be blocked by the store-operated

Caution: Product has not been fully validated for medical applications. For research use only.

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calcium entry (SOCE) inhibitor BTP2 (YM-58483, and increases CD86 and CD80 levels on mBMDC-derived EVs.

References:

[1]. Sako, Y., Sato-Kaneko, F., Shukla, N.M., et al. Identification of a novel small molecule that enhances the release of extracellular vesicles with immunostimulatory potency via induction of calcium influx ACS Chem. Biol. 18(4)982-993(2023).

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