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**Product Data Sheet**

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Product Name: CAY10638

Cat. No.: GC18893

**Chemical Properties**

Cas. No. 1221413-57-5

Chemical Name 5-(4-(2-(thiophen-2-yl)ethoxy)benzylidene)thiazolidine-2,4-dione

SMILES O=C(/C(S1)=C/C(C=C2)=CC=C2OCCC3=CC=CS3)NC1=OFormula  $C_{16}H_{13}NO_3S_2$  M.Wt 331.4

Solubility DMF: 30 mg/ml, DMF:PBS (pH 7.2) (1:9): 0.1 mg/ml, DMSO: 25 mg/ml Storage Store at -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**

Prostaglandins have a short life in vivo because NAD<sup>+</sup>-dependent 15-hydroxy prostaglandin dehydrogenase (15-PGDH) catalyzes their oxidation to 15-keto metabolites with greatly reduced biological activity. Thiazolidinediones (TZDs) are a class of PPAR $\gamma$  agonists that have potent 15-PGDH inhibitory activity. CAY10638 is a TZD derivative that inhibits 15-PGDH activity with an IC<sub>50</sub> value of 31 nM.

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

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