

Product Data Sheet

Product Name: TSPC
Cat. No.: GC52066

Chemical Properties

Cas. No. 882286-32-0

SMILES N#CC1=NC=CN=C1S(=O)(C2=CC=CS2)=O

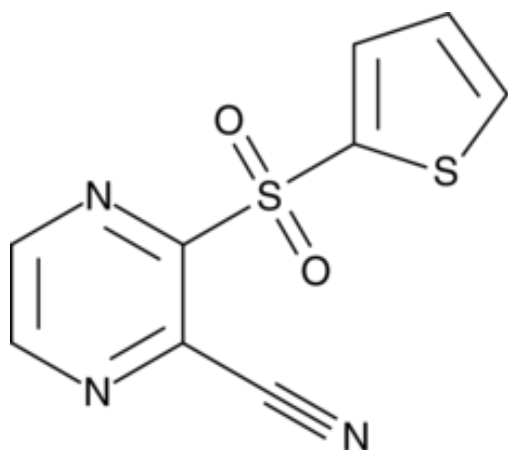
Formula C₉H₅N₃O₂S₂ M.Wt 251.3

Solubility DMF: 3 mg/ml, DMSO: 3 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

TSPC is an inhibitor of the gibberellin receptor GID1.¹ It inhibits the gibberellin-induced interaction between the gibberellin receptor GID1 and a negative regulator of its signaling, DELLA, in a yeast two-hybrid assay (IC₅₀ = <30 μM) and gibberellin binding to GID1 in the presence or absence of DELLA in a cell-free assay when used at concentrations ranging from 1 to 100 μM. TSPC (10-100 μM) suppresses seed germination and seedling growth in *Arabidopsis*.

1. Yoon, J.-M., Nakajima, M., Mashiguchi, K., et al. Chemical screening of an inhibitor for gibberellin receptors based on a yeast two-hybrid system. *Bioorg. Med. Chem. Lett.* 23(4):1096-1098 (2013)

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

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