

Product Data Sheet

Product Name: TC-S 7005

Cat. No.: GC16771

Chemical Properties

Cas. No. 1082739-92-1

Chemical Name (S)-3-(benzo[d][1,3]dioxol-5-yl)-N-(1-phenylethyl)isoxazolo[5,4-c]pyridin-5-amine

SMILES C[C@@](NC1=NC=C2C(C(C3=CC4=C(OCO4)C=C3)=NO2)=C1)([H])C5=CC=CC=C5

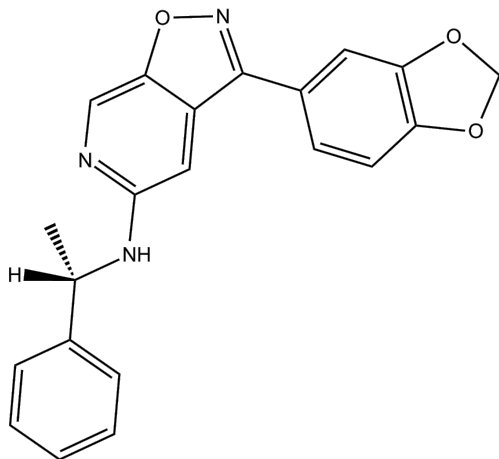
Formula $C_{21}H_{17}N_3O_3$ M.Wt 359.38

Solubility <35.94mg/ml in DMSO 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

TC-S 7005 is a Polo-like kinases (Plks) inhibitor with IC₅₀s of 4 nM, 24 nM and 214 nM for Plk2, Plk3, and Plk1, respectively[1].

TC-S 7005 markedly induces myofibroblast differentiation and reduces fibroblast proliferation rates[2].

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

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References:

- [1]. Hanan EJ, et al. Design and synthesis of 2-amino-isoxazolopyridines as Polo-like kinase inhibitors. *Bioorg Med Chem Lett*. 2008 Oct 1;18(19):5186-9.
- [2]. Stephan Reinhard Künzel, et al. Hypoxia-induced epigenetic silencing of polo-like kinase 2 promotes fibrosis in atrial fibrillation. *bioRxiv* 445098

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