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Produktinformation

- Forschungsprodukte & Biochemikalien
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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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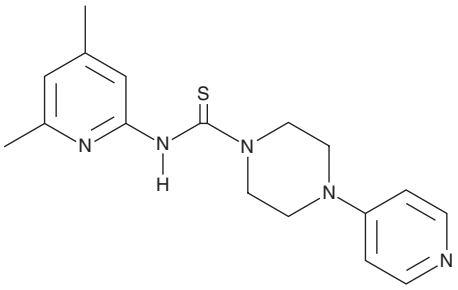
PRODUCT INFORMATION

PHGDH-inactive

Item No. 19717

CAS Registry No.: 1914971-16-6
Formal Name: N-(4,6-dimethyl-2-pyridinyl)-4-(4-pyridinyl)-1-piperazinecarbothioamide
Synonym: 3-Phosphoglycerate Dehydrogenase-inactive
MF: $C_{17}H_{21}N_5S$
FW: 327.5
Purity: ≥98%
UV/Vis.: λ_{max}: 278, 351 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

PHGDH-inactive is supplied as a crystalline solid. A stock solution may be made by dissolving the PHGDH-inactive in the solvent of choice. PHGDH-inactive is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of PHGDH-inactive in these solvents is approximately 5 and 2 mg/ml, respectively.

PHGDH-inactive is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, PHGDH-inactive should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. PHGDH-inactive has a solubility of approximately 0.16 mg/ml in a 1:5 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

PHGDH-inactive is an inactive analog of the 3-phosphoglycerate dehydrogenase (PHGDH) inhibitors NCT-502 (Item No. 19716) and NCT-503 (Item No. 19718).[1] Unlike the inhibitors, PHGDH-inactive does not inhibit PHGDH *in vitro* (IC_{50}s = >57, 3.7, and 2.5 µM for PHGDH-inactive, NCT-502, and NCT-503, respectively), block serine synthesis in cells, or kill PHGDH-dependent cell lines.[1] PHGDH-inactive is intended to serve as a negative control for NCT-502 and NCT-503.

Reference

1. Pacold, M.E., Brimacombe, K.R., Chan, S.H., *et al*. A PHGDH inhibitor reveals coordination of serine synthesis and one-carbon unit fate. *Nat. Chem. Biol.* **12(6)**, 452-458 (2016).

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