



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### 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<sub>17</sub>H<sub>21</sub>N<sub>5</sub>S  
**FW:** 327.5

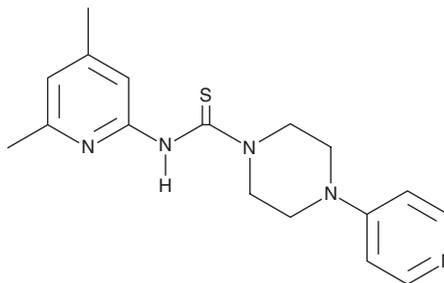
**Purity:** ≥98%

**UV/Vis.:** λ<sub>max</sub>: 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).<sup>1</sup> Unlike the inhibitors, PHGDH-inactive does not inhibit PHGDH *in vitro* (IC<sub>50</sub>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.<sup>1</sup> 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).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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