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- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



3-Mercaptopicolinic Acid (hydrochloride)

Item No. 20895

CAS Registry No.: 320386-54-7

Formal Name: 3-mercapto-2-pyridinecarboxylic acid, monohydrochloride

Synonym: SKF 34288

MF: $C_6H_5NO_2S \cdot HCl$

FW: 191.6

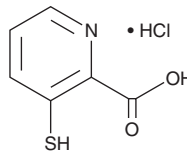
Purity: $\geq 95\%$

UV/Vis.: λ_{max} : 209, 251, 316, 431 nm

Supplied as: A crystalline solid

Storage: $-20^\circ C$

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

3-Mercaptopicolinic acid (hydrochloride) is supplied as a crystalline solid. Aqueous solutions of 3-mercapto-2-pyridinecarboxylic acid (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of 3-mercapto-2-pyridinecarboxylic acid (hydrochloride) in PBS, pH 7.2, is approximately 0.2 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

3-Mercaptopicolinic acid is an inhibitor of gluconeogenesis. In perfused rat livers, gluconeogenesis was inhibited when lactate, pyruvate, or alanine served as substrate, but not with fructose, suggesting phosphoenolpyruvate carboxykinase as the site of inhibition.¹⁻³

References

1. DiTullio, N.W., Berkoff, C.E., Blank, B., *et al.* 3-Mercaptopicolinic acid, an inhibitor of gluconeogenesis. *Biochem. J.* **138**(3), 387-394 (1974).
2. Robinson, B.H. and Oei, J. 3-Mercaptopicolinic acid, a preferential inhibitor of the cytosolic phosphoenolpyruvate carboxykinase. *FEBS Lett.* **58**(1), 12-15 (1975).
3. Hidalgo, J., Latorre, P., Carrodeguas, J.A., *et al.* Inhibition of pig phosphoenolpyruvate carboxykinase isoenzymes by 3-mercapto-2-pyridinecarboxylic acid and novel inhibitors. *PLoS One* **11**(7), e0159002 (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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