
Product Data Sheet

Product Name: 2-Amino-5-phenylpyridine

Cat. No.: GC60470

Chemical Properties

Cas. No. 33421-40-8

SMILES NC1=NC=C(C2=CC=CC=C2)C=C1

Formula $C_{11}H_{10}N_2$ M.Wt 170.21

Solubility Storage 4°C, protect from light

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

2-Amino-5-phenylpyridine is a mutagenic heterocyclic aromatic amine that is formed by pyrolysis of phenylalanine in proteins. 2-Amino-5-phenylpyridine is in broiled sardines and is considered as potentially carcinogenic[1][2].

On the other hand, the chemical structure of 5-phenyl-2-pyridinamine (PPA) shows a great resemblance to the aminobiphenyls, another well known class of carcinogenic aromatic amines[2].

[1]. Dooley KL, et al. Comparative carcinogenicity of the food pyrolysis product, 2-amino-5-phenylpyridine, and the known human carcinogen, 4-aminobiphenyl, in the neonatal B6C3F1 mouse. *Cancer Lett.* 1988 Jul;41(1):99-103. [2]. Stavenuiter JF, et al. Syntheses of 5-phenyl-2-pyridinamine, a possibly carcinogenic pyrolysis product of phenylalanine, and some of its putative metabolites. *Carcinogenesis.* 1985 Jan;6(1):13-9.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA