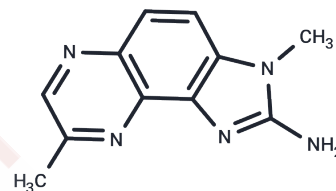


MeIQx

Chemical Properties

CAS No. :	77500-04-0
Formula:	C ₁₁ H ₁₁ N ₅
Molecular Weight:	213.244
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	MeIQx (MeIQx) is a food-derived carcinogen that has been found in high temperature-cooked fish and meats.1It is activated by hydroxylation and subsequent O-acetylation via the cytochrome P450 (CYP) isoform CYP1A2 and N-acetyltransferase 2, respectively, in UV5 cells expressing the human enzymes to a metabolite that reacts with DNA to form adducts.2MeIQx (200 and 400 ppm in the diet) induces tumor formation in rats.3
Targets(IC50)	Others,Cytochromes P450

Solubility Information

Solubility	Methanol: Slightly soluble DMSO: Slightly soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.6896 mL	23.4478 mL	46.8955 mL
5 mM	0.9379 mL	4.6896 mL	9.3791 mL
10 mM	0.469 mL	2.3448 mL	4.6896 mL
50 mM	0.0938 mL	0.469 mL	0.9379 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Johansson, M.A., and J?gerstad, M. Occurrence of mutagenic/carcinogenic heterocyclic amines in meat and fish products, including pan residues, prepared under domestic conditions *Carcinogenesis* 15(8)1511-1518(1994)
- Metry, K.J., Neale, J.R., Doll, M.A., et al. Effect of rapid human N-acetyltransferase 2 haplotype on DNA damage and mutagenesis induced by 2-amino-3-methylimidazo-[4,5-f]quinoline (IQ) and 2-amino-3,8-dimethylimidazo-[4,5-f]quinoxaline (MeIQx) *Mutat. Res.* 684(1-2)66-73(2010)
- Kushida, H., Wakabayashi, K., Sato, H., et al. Dose-response study of MeIQx carcinogenicity in F344 male rats *Cancer Lett.* 83(1-2)31-35(1994)

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