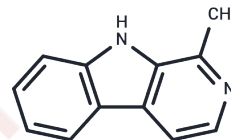


## Harman hydrochloride

## Chemical Properties

CAS No. :	21655-84-5
Formula:	C <sub>12</sub> H <sub>11</sub> ClN <sub>2</sub>
Molecular Weight:	218.68
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



HCl

## Biological Description

Description	Harman hydrochloride can directly induce CYP1A1 gene expression in an AhR-dependent manner and may represent a novel mechanism by which harman promotes mutagenicity, co-mutagenicity and carcinogenicity.
Targets(IC50)	Opioid Receptor, GABA Receptor, Adrenergic Receptor, AChR, Cytochromes P450, Imidazoline Receptor, Monoamine Oxidase

## Solubility Information

Solubility	DMSO: 55 mg/mL (251.51 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.5729 mL	22.8645 mL	45.7289 mL
5 mM	0.9146 mL	4.5729 mL	9.1458 mL
10 mM	0.4573 mL	2.2864 mL	4.5729 mL
50 mM	0.0915 mL	0.4573 mL	0.9146 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

Gendy M , El-Kadi A . Harman induces CYP1A1 enzyme through an aryl hydrocarbon receptor mechanism[J]. Toxicol Appl Pharmacol, 2010, 249(1):55-64.

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