

Product Name: L-Kynurenine

Catalog No.: 4393

Batch No.: 9

CAS Number: 2922-83-0

IUPAC Name: L-2-Amino-4-(2-aminophenyl)-4-oxobutanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₂N₂O₃·¼H₂O

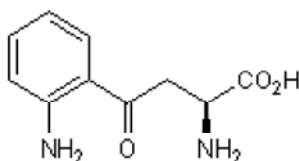
Batch Molecular Weight: 212.71

Physical Appearance: Beige solid

Solubility: water to 10 mM
DMSO to 10 mM
1eq. HCl to 50 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = -40.2 (Concentration = 0.4, Solvent = Water)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.46	5.92	13.17
Found	56.05	5.56	12.9

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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IUPAC Name: L-2-Amino-4-(2-aminophenyl)-4-oxobutanoic acid

Description:

Tryptophan catabolite; endogenous activator of the aryl hydrocarbon receptor (AhR). Immunosuppressant; suppresses allogeneic T cell proliferation.

Physical and Chemical Properties:

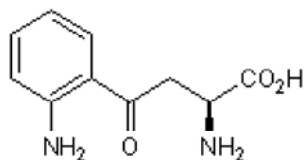
Batch Molecular Formula: C₁₀H₁₂N₂O₃·½H₂O

Batch Molecular Weight: 212.71

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 10 mM
DMSO to 10 mM
1eq. HCl to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Opitz et al (2011) An endogenous tumour-promoting ligand of the human aryl hydrocarbon receptor. *Nature* **478** 197. PMID: 21976023.

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