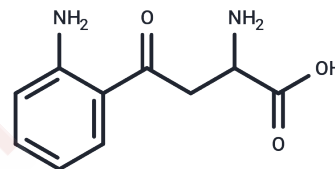


## 2-Amino-4-(2-aminophenyl)-4-oxobutanoic acid

## Chemical Properties

CAS No. :	343-65-7
Formula:	C <sub>10</sub> H <sub>12</sub> N <sub>2</sub> O <sub>3</sub>
Molecular Weight:	208.21
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	2-Amino-4-(2-aminophenyl)-4-oxobutanoic acid (3-Anthraniloylalanine) is a ketone and amino acid derivative with diverse biological functions, including vasodilatory, immunoregulatory, and neuromodulatory activities. It is a precursor for niacin and its aberrant production is linked to neurological disease-related cognitive deficits and depressive symptoms. This compound is overexpressed in certain cancer cell types and could potentially serve as a biomarker to assess cancer risk.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	0.1M HCl: 10 mg/mL (48.03 mM),Sonication is recommended. 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	4.8028 mL	24.0142 mL	48.0284 mL
5 mM	0.9606 mL	4.8028 mL	9.6057 mL
10 mM	0.4803 mL	2.4014 mL	4.8028 mL
50 mM	0.0961 mL	0.4803 mL	0.9606 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.

## Reference

Liu JJ, et al. Biochim Biophys Acta. 2015 May;1852(5):980-91.

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