

## Formiminoglutamic acid

## Chemical Properties

CAS No. : 816-90-0

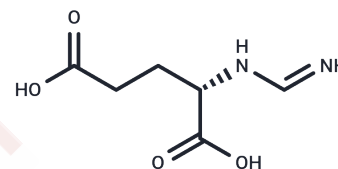
Formula: C<sub>6</sub>H<sub>10</sub>N<sub>2</sub>O<sub>4</sub>

Molecular Weight: 174.16

Keep away from moisture

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Formiminoglutamic acid (NSC 334078) is a biomarker for formylaminoglutaminuria, an indicator of folate deficiency.
Targets(IC50)	Others,Endogenous Metabolite

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.7418 mL	28.7092 mL	57.4185 mL
5 mM	1.1484 mL	5.7418 mL	11.4837 mL
10 mM	0.5742 mL	2.8709 mL	5.7418 mL
50 mM	0.1148 mL	0.5742 mL	1.1484 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

SPRAY GH, et al. Excretion of formiminoglutamic acid as an index of folic-acid deficiency. *Lancet*. 1959 Oct 31;2 (7105):702-4.

Su H, et al. Exploring the substrate specificity and catalytic mechanism of imidazolonepropionase (HutI) from *Bacillus subtilis*. *Phys Chem Chem Phys*. 2016 Oct 12;18(40):27928-27938.

Kyriakides M, et al. Systems level metabolic phenotype of methotrexate administration in the context of non-alcoholic steatohepatitis in the rat. *Toxicol Sci*. 2014 Nov;142(1):105-16.

Hai Y, Dugery RJ, Healy D, Christianson DW. Formiminoglutamase from *Trypanosoma cruzi* is an arginase-like manganese metalloenzyme. *Biochemistry*. 2013 Dec 23;52(51):9294-309. doi: 10.1021/bi401352h. Epub 2013 Nov 21. PubMed PMID: 24261485; PubMed Central PMCID: PMC3892564.

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