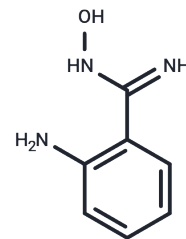


2-Amino benzamidoxime

Chemical Properties

CAS No. :	16348-49-5
Formula:	C7H9N3O
Molecular Weight:	151.17
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	2-Amino benzamidoxime (ABAO compound 6) swiftly reacts with aldehydes in aqueous solution to form a stable 1,2-dihydroquinazoline-3-oxide (dihydroquinazoline derivative). The reaction involves the formation of a Schiff base as the rate-determining step, followed by rapid intramolecular cyclization. The reaction rate is pH-dependent, indicating that protonated benzamidoxime acts as an internal general acid in Schiff base formation. Substituents on the aromatic ring can increase the basicity of the aromatic amine, accelerating the reaction. The reactive properties of 2-Amino benzamidoxime suggest its potential as a platform for developing new bioconjugation strategies, fluorescent probes, and post-translational diversification of genetically encoded libraries.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.6151 mL	33.0753 mL	66.1507 mL
5 mM	1.323 mL	6.6151 mL	13.2301 mL
10 mM	0.6615 mL	3.3075 mL	6.6151 mL
50 mM	0.1323 mL	0.6615 mL	1.323 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481