


Specification

p*-Aminobenzamidine Dihydrochloride *BioChemica

A2126

Physical Description:	Solid
Product Code:	A2126
Product Name:	<i>p</i> -Aminobenzamidine Dihydrochloride <i>BioChemica</i>
Specifications:	Assay (titr.): 98.0 - 101.0 % Loss on drying (105°C): max. 1.0 %
Hazard pictograms	
WGK:	1
Storage:	2-8°C
Signal Word:	Attention
GHS Symbols:	GHS07
H Phrases:	H315 H319 H335
P Phrases:	P261 P305+P351+P338
Molecular Formula:	C ₇ H ₉ N ₃ · 2HCl
M:	208.09 g/mol
CAS:	2498-50-2
EINECS:	219-692-2
CS:	29252900

AppliChem GmbH

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Comment

p-Aminobenzamidine is, like benzamidine, a competitive inhibitor of the serine proteases trypsin (1), plasmin and thrombin (2), but it is more active than benzamidine. The active concentration ranges from 1 mM (3, 4) to 2 mM (5). For the preparation of plant cell extracts, a working concentration of 1 mM is recommended (100X stock solution 0.1 M in water; ref. 4).

Bibliography

(1)Mares-Guia, M. & Shaw, E. (1965) *J. Biol. Chem.* **240**, 1579-1585 Studies on the active center of Trypsin\; The binding of Amidines and Guanidines as models of the substrate side chain. (2)Markwardt, F. *et al.* (1968) *Eur. J. Biochem.* **6**, 502-506 Comparative studies on the inhibition of Trypsin, Plasmin and Thrombin by derivatives of Benzylamine and Benzamidine. (3)Hanatani, M. *et al.* (1984) *J. Biochem.* **95**, 1349-1353 Solubilization and reconstitution of membrane proteins of *E. coli* using Alkanoyl-N-methylglucamides. (4)Gegenheimer, P. (1990) *Methods Enzymol.* **182**, 174-193 Preparation of extracts from plants. (5)Hager-Braun, C. *et al.* (1995) *Biochemistry* **34**, 9617-9624 Stable photobleaching of P480 in *Chlorobium* reaction center preparations\; Presence of the 42-kDa Bacteriochlorophyll *a* protein and a 17-kDa polypeptide.

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