


Specification

***p*-Aminobenzamidine Dihydrochloride *BioChemica***

**A2126**

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

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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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