



## Product Information

### Carbonic anhydrase inhibitor, Benzthiazide, Purity $\geq 98\%$

**Cat. No.:** X24-09-YM238

**Size:** 100 mg; 200 mg; 500 mg; 1 g

**CAS Number:** 91-33-8

**Compound CID:** 2343

**Synonym:** 91-33-8; Benzthiazide; Benzothiazide; Dihyrex; Aquatag; Diucen; Exna;

Edemax; Foven; Dytide;

3-(Benzylsulfanylmethyl)-6-chloro-1,1-di

oxo-4*H*-1 $\lambda$ 6,2,4-benzothiadiazine-7-sulfonamide; Carbonic anhydrase inhibitor

**This product is for research use only and is not intended for diagnostic use.**



#### Product Information

<b>Description</b>	Benzthiazide is an effective metabolism inhibitor, that has the ability to prevent the pathway of cell metabolism by inhibiting carbonic anhydrase. The molecular weight of the compound is 431.94, and its molecular formula is C <sub>15</sub> H <sub>14</sub> ClN <sub>3</sub> O <sub>4</sub> S <sub>3</sub> .
<b>Molecular Weight</b>	431.94
<b>Molecular Formula</b>	C <sub>15</sub> H <sub>14</sub> ClN <sub>3</sub> O <sub>4</sub> S <sub>3</sub>
<b>IUPAC Name</b>	3-(Benzylsulfanylmethyl)-6-chloro-1,1-dioxo-4 <i>H</i> -1 $\lambda$ 6,2,4-benzothiadiazine-7-sulfonamide
<b>InChI</b>	InChI=1S/C15H14ClN3O4S3/c16-11-6-12-14(7-13(11)25(17,20)21)26(22,23)19-15(18-12)9-24-8-10-4-2-1-3-5-10/h1-7H,8-9H2,(H,18,19)(H2,17,20,21)
<b>InChI Key</b>	NDTSRXAMMQDVSU-UHFFFAOYSA-N
<b>Canonical SMILES</b>	C1=CC=C(C=C1)CSCC2=NS(=O)(=O)C3=CC(=C(C=C3N2)Cl)S(=O)(=O)N
<b>Form</b>	Lyophilized powder
<b>Purity</b>	$\geq 98\%$
<b>Impurities</b>	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
<b>Identity</b>	Confirmed by NMR/HPLC/MS.
<b>Stability</b>	In its lyophilized form, the chemical remains stable for 36 months.
<b>Quality Level</b>	Research grade
<b>Applications</b>	Benzthiazide can be studied extensively for its potential therapeutic applications in the treatment of hypertension and edema by reducing fluid buildup in the body.
<b>Storage</b>	Store at -20°C, and keep desiccated.



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