## Disulfamide

BIOLOGICAL ACTIVITY		
Description	Disulfamide, an orally active diuretic, is a carbonic anhydrase inhibitor with the IC <sub>50</sub> value of 0.07 μM. Disulfamide leads to diuresis by inhibiting carbonic anhydrase and preventing the reabsorption of sodium and bicarbonate in the proximal tubule <sup>[1]</sup> .	
IC <sub>50</sub> & Target	IC50: 0.07 $\mu$ M (carbonic anhydrase) <sup>[1]</sup>	
In Vivo		<ul> <li>Ineal injection, 200 mg/kg, once) has potential blood glucose raising properties in male Wistar rats<sup>[2]</sup>.</li> <li>Intly confirmed the accuracy of these methods. They are for reference only.</li> <li>Male Wistar rats weighing between 200-300 g<sup>[2]</sup></li> <li>200 mg/kg</li> <li>Intraperitoneal injection; once</li> <li>Resulted in elevated blood sugar levels from an initial blood glucose concentration of 143.1 mg/100 mL to a one hour later final concentration of 194.6 mg/100 mL, an increase of 36%.</li> </ul>

## REFERENCES

[1]. CT Supuran, et al. Carbonic anhydrase inhibitors: Synthesis and inhibitory properties of 1,3,4-thiadiazole-2,5-bissulfonamide. European Journal of Medicinal Chemistry, Volume 31, Issue 11, 1996, Pages 843-846.

[2]. J M Foy, et al. Acute diuretic induced hyperglycaemia in rats. Life Sci. 1967 May 1;6(9):897-902.

Caution: Product has not been fully validated for medical applications. For research use only.

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**Product** Data Sheet

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