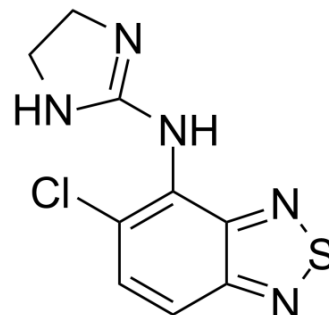


## Tizanidine

Cat. No.:	HY-B0194
CAS No.:	51322-75-9
Molecular Formula:	C <sub>9</sub> H <sub>8</sub> ClN <sub>5</sub> S
Molecular Weight:	253.71
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Tizanidine is an  $\alpha_2$ -adrenergic receptor agonist and inhibits neurotransmitter release from CNS noradrenergic neurons. Target:  $\alpha_2$ -adrenergic receptor. Tizanidine is a drug that is used as a muscle relaxant. It is a centrally acting  $\alpha_2$  adrenergic agonist. It is used to treat the spasms, cramping, and tightness of muscles caused by medical problems such as multiple sclerosis, ALS, spastic diplegia, back pain, or certain other injuries to the spine or central nervous system. It is also prescribed off-label for migraine headaches, as a sleep aid, and as an anticonvulsant. It is also prescribed for some symptoms of fibromyalgia. Tizanidine has been found to be as effective as other antispasmodic drugs and has superior tolerability to that of baclofen and diazepam. Tizanidine can be very strong even at the 2 mg dose and may cause hypotension, so caution is advised when it is used in patients who have a history of orthostatic hypotension, or when switching from gel cap to tablet form and vice versa. Tizanidine can occasionally cause liver damage, generally the hepatocellular type. Clinical trials show that up to 5% of patients treated with tizanidine had elevated liver function test values, though symptoms disappeared upon withdrawal of the drug. Care should be used when first beginning treatment with tizanidine with regular liver tests for the first 6 months of treatment.

### REFERENCES

[1]. Kamen L, et al. A practical overview of tizanidine use for spasticity secondary to multiple sclerosis, stroke, and spinal cord injury. *Curr Med Res Opin.* 2008 Feb;24(2):425-39.

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

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