
Product Data Sheet

Product Name: Tranilast Sodium

Cat. No.: GC12443

Chemical Properties

Cas. No. 104931-56-8

Chemical Name sodium;2-[3-(3,4-dimethoxyphenyl)prop-2-enoylamino]benzoate

SMILES COC1=C(C=C(C=C1)C=CC(=O)NC2=CC=CC=C2C(=O)[O-])OC.[Na+]Formula $C_{18}H_{16}NNaO_5$ M.Wt 349.31

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Tranilast is an antiallergic agent. Target: Angiotensin Receptor. Tranilast has been approved in Japan and South Korea, since 1982, for the treatment of bronchial asthma, with indications for keloids and hypertrophic scar added in 1993. Tranilast is also used to treat asthma, autoimmune diseases, atopic and fibrotic pathologies, and can also inhibit angiogenesis. The antiproliferative properties of tranilast were found that tranilast elicited an inhibitory effect on fibroblast proliferation in vitro and also suppressed collagen production both in vitro and in vivo . Tranilast also reduced the release of chemical mediators from mast cells and suppressed hypersensitivity reactions. [1] Three-week-old C57Bl/10 and mdx mice received tranilast (~300 mg/kg) in their food for 9 weeks, after which fibrosis was assessed through histological analyses, and functional properties of tibialis anterior muscles were assessed in situ and diaphragm muscle strips in vitro. Tranilast administration did not significantly alter the mass of any muscles in control or mdx mice, but it decreased fibrosis in the severely affected diaphragm muscle by 31% compared with untreated mdx mice ($P < 0.05$) [2].

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

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References:

- [1]. Rogosnitzky, M., R. Danks, and E. Kardash, Therapeutic potential of tranilast, an anti-allergy drug, in proliferative disorders. *Anticancer Res*, 2012. 32(7): p. 2471-8.
- [2]. Swiderski, K., et al., Tranilast administration reduces fibrosis and improves fatigue resistance in muscles of mdx dystrophic mice. *Fibrogenesis Tissue Repair*, 2014. 7(1): p. 1.

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