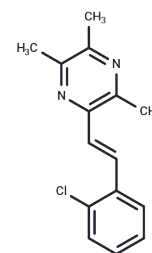


## (E)-2-(2-Chlorostyryl)-3,5,6-trimethylpyrazine

## Chemical Properties

CAS No. :	1000672-89-8
Formula:	C <sub>15</sub> H <sub>15</sub> ClN <sub>2</sub>
Molecular Weight:	258.75
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	(E)-2-(2-Chlorostyryl)-3,5,6-trimethylpyrazine (CSTMP) is a stilbene derivative with antioxidant and anticancer activities. It stimulates proliferation of hydrogen peroxide-damaged ECV-304 cells (EC <sub>50</sub> = 24.9 nM). CSTMP reduces hydrogen peroxide-induced release of lactate dehydrogenase (LDH) in and increases viability of human umbilical vein endothelial cells (HUVECs) in a concentration-dependent manner via inhibition of apoptosis. It reverses hydrogen peroxide-induced release of malondialdehyde (MDA) and decreases in superoxide dismutase (SOD) and glutathione peroxidase (GSH-Px) activities as well as increases constitutive nitric oxide synthase (cNOS) activity and nitric oxide (NO) production in HUVECs. CSTMP also induces cell death of A549 non-small cell lung cancer (NSCLC) cells in an IRE1 $\alpha$ -dependent manner through induction of IRE1 $\alpha$ -TRAF2-ASK1 complex-mediated endoplasmic reticulum (ER) stress and mitochondrial apoptosis.
Targets(IC <sub>50</sub> )	Others

## Solubility Information

Solubility	DMF: 20 mg/mL (77.29 mM), Sonication is recommended. DMSO: 2 mg/mL (7.73 mM), Sonication is recommended. Ethanol: 2 mg/mL (7.73 mM), Sonication is recommended. DMF:PBS(pH 7.2)(1:1): 0.5 mg/mL (1.93 mM), Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

### Preparing Stock Solutions

---

	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.8647 mL	19.3237 mL	38.6473 mL
5 mM	0.7729 mL	3.8647 mL	7.7295 mL
10 mM	0.3865 mL	1.9324 mL	3.8647 mL
50 mM	0.0773 mL	0.3865 mL	0.7729 mL

---

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481