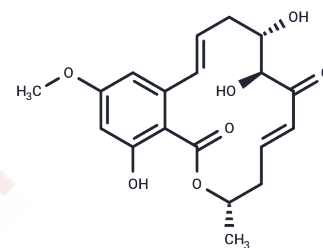


## (5E)-7-Oxozeaenol

## Chemical Properties

CAS No. :	1198574-97-8
Formula:	C <sub>19</sub> H <sub>22</sub> O <sub>7</sub>
Molecular Weight:	362.37
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	(5E)-7-Oxozeaenol is a resorcylic acid lactone that has been found in the fungus MSX 63935 and has enzyme inhibitory and anticancer activities. <sup>1,2</sup> It inhibits TGF- $\beta$ -activated kinase 1 (TAK-1; IC <sub>50</sub> = 1.3 $\mu$ M). <sup>1</sup> (5E)-7-Oxozeaenol inhibits proliferation of MCF-7, H460, SF-268, HT-29, and MDA-MB-435 human cancer cells with IC <sub>50</sub> values of 4.9, 1.2, 5.6, 4.4, and 5.5 $\mu$ M, respectively. <sup>2</sup>
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7596 mL	13.7981 mL	27.5961 mL
5 mM	0.5519 mL	2.7596 mL	5.5192 mL
10 mM	0.276 mL	1.3798 mL	2.7596 mL
50 mM	0.0552 mL	0.276 mL	0.5519 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.

Reference

Fakhouri, L., El-Elimat, T., Hurst, D.P., et al. Isolation, semisynthesis, covalent docking and transforming growth factor beta-activated kinase 1 (TAK1)-inhibitory activities of (5Z)-7-oxozeaenol analogues. *Bioorg. Med. Chem.* 23 (21), 6993-6999 (2015).

Ayers, S., Graf, T.N., Adcock, A.F., et al. Resorcylic acid lactones with cytotoxic and NF- $\kappa$ B inhibitory activities and their structure-activity relationships. *J. Nat. Prod.* 74(5), 1126-1131 (2011).

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