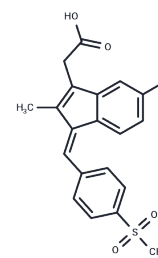


## Exisulind

## Chemical Properties

CAS No. :	59973-80-7
Formula:	C <sub>20</sub> H <sub>17</sub> F <sub>0</sub> O <sub>4</sub> S
Molecular Weight:	372.41
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	Exisulind (CP248) induces apoptosis through the activation of protein kinase G (PKG). Exisulind exhibits antineoplastic activity in solid tumour and haematological cancer cell lines and is an inhibitor of tumour growth in rodent models of colon, prostate, bladder, mammary and lung cancer.
Targets(IC50)	Apoptosis, mTOR, PKA
In vivo	The topical treatment with NO-Exisulind significantly reduced UVB-induced tumors in SKH-1 hairless mice. The tumors/tumor bearing mouse, the number of tumors/mouse and tumor volume/mouse decreased significantly (P < 0.05) as compared with vehicle-treated and UVB-irradiated positive controls. NO-Exisulind-treated animals showed reduced expression of proliferation markers, such as PCNA and cyclin D1. These mice also manifested increased expression of proapoptotic Bax and decreased expression of antiapoptotic Bcl2 with an increase in the number of TUNEL-positive cells in tumors. NO-Exisulind-treated tumors are less invasive and progress less efficiently from benign to malignant carcinomas[1].

## Solubility Information

Solubility	DMSO: 55 mg/mL (147.69 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.6852 mL	13.4261 mL	26.8521 mL
5 mM	0.537 mL	2.6852 mL	5.3704 mL
10 mM	0.2685 mL	1.3426 mL	2.6852 mL
50 mM	0.0537 mL	0.2685 mL	0.537 mL

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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

Singh T, et al. Nitric oxide donor exisulind is an effective inhibitor of murine photocarcinogenesis. *Photochem Photobiol.* 2012 Sep-Oct;88(5):1141-8.

Weight CJ, et al. A prospective, controlled phase II study of neoadjuvant exisulind therapy before radical prostatectomy: effect on apoptosis. *Urology.* 2012 Aug;80(2):484.e17-22.

Griffiths GJ. Exisulind Cell Pathways. *Curr Opin Investig Drugs.* 2000 Nov;1(3):386-91. Review.

Lim JT, et al. Sulindac sulfide and exisulind inhibit expression of the estrogen and progesterone receptors in human breast cancer cells. *Clin Cancer Res.* 2006 Jun 1;12(11 Pt 1):3478-84.

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