

Product data sheet



MedKoo Cat#: 584399 Name: Exisulind CAS#: 59973-80-7 Chemical Formula: C ₂₀ H ₁₇ FO ₄ S Exact Mass: 372.0832 Molecular Weight: 372.4104	
Product supplied as:	Powder
Purity (by HPLC):	≥ 98%
Shipping conditions	Ambient temperature
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.

1. Product description:

Exisulind, also known as CP248, is a sulfated analog of indomethacin that inhibits K-ras-dependent cyclooxygenase-2 and acts as an antineoplastic agent that fosters microtubule depolymerization.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under "QC And Documents" section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
TBD	TBD	TBD

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.69 mL	13.43 mL	26.85 mL
5 mM	0.54 mL	2.69 mL	5.37 mL
10 mM	0.27 mL	1.34 mL	2.69 mL
50 mM	0.05 mL	0.27 mL	0.54 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of "Calculator"

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

1. Czibere A, Prall WC, Zerbini LF, Jäger M, Kobbe G, Knipp S, Libermann TA, Haas R, Aivado M. Exisulind induces apoptosis in advanced myelodysplastic syndrome (MDS) and acute myeloid leukaemia/MDS. *Br J Haematol.* 2006 Nov;135(3):355-7. doi: 10.1111/j.1365-2141.2006.06298.x. Epub 2006 Sep 15. PMID: 16978222.
2. Czibere A, Prall WC, Zerbini LF, Grall F, Craigie EC, Ulrich SD, Giagounidis AA, Haas R, Libermann TA, Aivado M. The nonsteroidal anti-inflammatory drug Exisulind selectively induces apoptosis via JNK in secondary acute myeloid leukemia after myelodysplastic syndrome. *Cell Cycle.* 2005 Jun;4(6):812-7. doi: 10.4161/cc.4.6.1722. Epub 2005 Jun 8. PMID: 15970671.

In vivo study

1. Singh T, Chaudhary SC, Kapur P, Weng Z, Elmets CA, Kopelovich L, Athar M. Nitric oxide donor exisulind is an effective inhibitor of murine photocarcinogenesis. *Photochem Photobiol.* 2012 Sep-Oct;88(5):1141-8. doi: 10.1111/j.1751-1097.2012.01093.x. Epub 2012 Feb 24. PMID: 22364235; PMCID: PMC3368998.

7. Bioactivity

Biological target:

TBD

In vitro activity

Product data sheet



The influence of Exisulind on the viability and apoptosis of CD34(+) stem cells from patients with advanced myelodysplastic syndrome (MDS) and acute myeloid leukaemia (AML)/MDS was investigated. In eight out of 10 patient samples Exisulind reduced the fraction of viable cells by inducing apoptosis

Reference: Br J Haematol. 2006 Nov;135(3):355-7. <https://pubmed.ncbi.nlm.nih.gov/16978222/>

In vivo activity

Over the 30 week duration of this experiment, a total of 10.53 ± 1.72 tumors/tumor bearing mouse were recorded in the UVB-irradiated group while only 5 ± 0.80 tumors were recorded in the NO-exisulind-treated animals (Fig. 2A & B). NO-exisulind treatment also resulted in significant tumor reduction and delay of tumor incidence when compared at early time points with UVB alone positive controls. However, tumor incidence at the 28th week was 80% and increased to 100% by the 30th week in both NO-exisulind treated and UVB-alone irradiated treatment groups (Fig. 2C). Similarly, NO-exisulind significantly reduced tumor volume when assessed in terms of mean tumor volume/mouse ($p < 0.05$) as shown in Fig. 2D. Application of NO-exisulind also slightly increased the latency period of tumor induction.

Reference: Photochem Photobiol. 2012 Sep; 88(5): 1141–1148. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3368998/>

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.