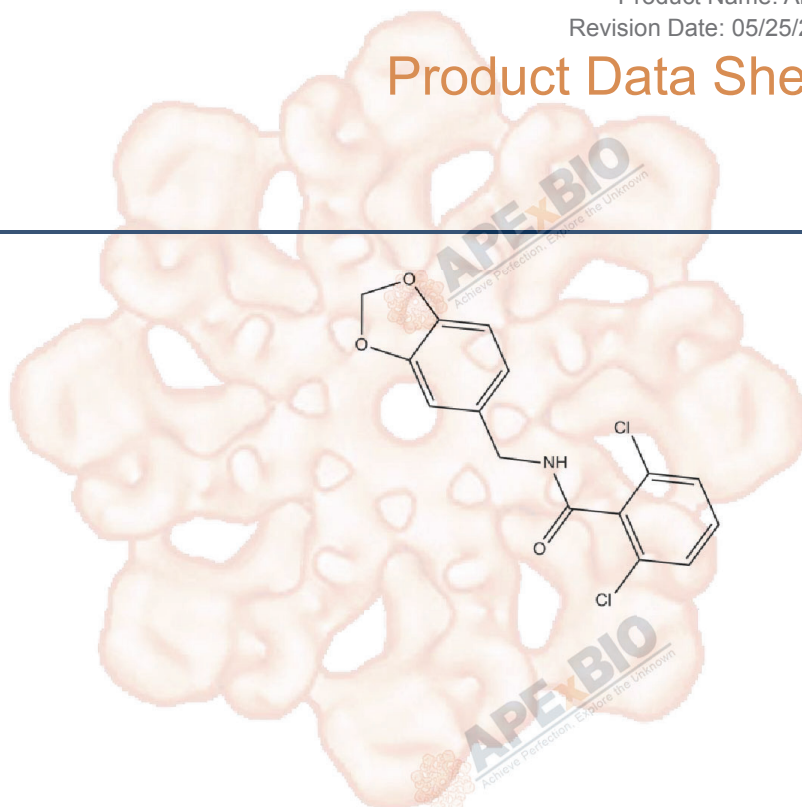


Product Data Sheet

Alda 1

Cat. No.:	B5508
CAS No.:	349438-38-6
Formula:	C ₁₅ H ₁₁ Cl ₂ NO ₃
M.Wt:	324.16
Synonyms:	
Target:	Metabolism
Pathway:	Dehydrogenase
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; ≥ 15.15 mg/mL in DMSO; ≥ 4.43 mg/mL in EtOH

In Vitro

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1mg	5mg	10mg
	1 mM		3.0849 mL	15.4245 mL	30.8490 mL
	5 mM		0.6170 mL	3.0849 mL	6.1698 mL
	10 mM		0.3085 mL	1.5424 mL	3.0849 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

ALDH2 activator

IC₅₀ & Target

In Vitro

Cell Viability Assay

Preparation method:

In Vivo

Animal experiment

Animal models:

Mouse xenograft SCC VII tumor model

Dosage form:

Alda-1 (3 mM in 95% ethanol solution in a volume of 0.25 ml) was applied locally on the skin.

Applications:	Concomitant topical application of the ALDH2 activator, Alda-1, effectively reduced the severity and delayed the onset of radiation-induced dermatitis in mice. Therefore, Alda-1, may be used as an adjunct to radiation therapy for the treatment of solid tumors in which radiation-induced dermatitis is an important clinical problem.
Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

- [1] Beretta M, Gorren AC, Wenzl MV, Weis R, Russwurm M, Koesling D, Schmidt K, Mayer B. Characterization of the East Asian variant of aldehyde dehydrogenase-2: bioactivation of nitroglycerin and effects of Alda-1. J Biol Chem. 2010 Jan 8;285(2):943-52.
- [2] Ning S, Budas GR, Churchill EN, Chen CH, Knox SJ, Mochly-Rosen D. Mitigation of radiation-induced dermatitis by activation of aldehyde dehydrogenase 2 using topical alda-1 in mice. Radiat Res. 2012 Jul;178(1):69-74.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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