

Product Datasheet

APE1 Redox Inhibitor NBP1-49581-25mg

Unit Size: 25 mg

Store at -20C in powder form. Store at -80C once reconstituted.

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NBP1-49581-25mg

APE1 Redox Inhibitor

Product Information

Unit Size	25 mg
Concentration	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
Storage	Store at -20C in powder form. Store at -80C once reconstituted.
Clone	E3330
Buffer	This product is supplied as a powder. It is soluble in DMSO (>20 mg/mL).

Product Description

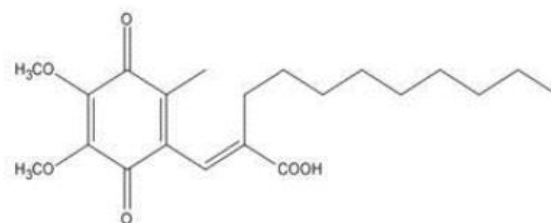
Specificity/Sensitivity	E3330 is a chemical that inhibits the redox activity of APE1.
Notes	<p>E3330 Chemical Information: Synonym: (2E)-2-[(4,5-Dimethoxy-2-methyl-3,6-dioxo-1,4-cyclohexadien-1-yl)methylene]-undecanoic acid Molecular Weight: 378.459 Empirical Formula: C₂₁H₃₀O₆ CAS Number: 136164-66-4 HPLC purity is >= to 97% Solubility: DMSO: >20 mg/mL Form: powder Color: orange</p> <p>Please go the "Publications, Images, Reviews & Protocols" tab and look under "General Protocols" for this product's MSDS.</p>

Product Application Details

Application Notes	E3330 is useful for inhibiting APE1 redox activity.
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Images

APE1 Redox Inhibitor [NBP1-49581] - Chemical Structure of E3330 [NBP1-49581]



Publications

Cesaratto L, Codarin E, Vascotto C et al. Specific inhibition of the redox activity of ape1/ref-1 by e3330 blocks tnf-a-induced activation of IL-8 production in liver cancer cell lines. PLoS One 2013 Aug 15 [PMID: 23967134]

Zhang J, Luo M, Marasco D et al. Inhibition of apurinic/aprimidinic endonuclease I's redox activity revisited. Biochemistry. 2013 Apr 30 [PMID: 23597102]

Cardoso AA, Jiang Y, Luo M et al. APE1/Ref-1 regulates STAT3 transcriptional activity and APE1/Ref-1-STAT3 dual-targeting effectively inhibits pancreatic cancer cell survival. PLoS One 2012 [PMID: 23094050]

Luo M, Zhang J, He H et al. Characterization of the redox activity and disulfide bond formation in apurinic/aprimidinic endonuclease. Biochemistry. 2012 Jan 17 [PMID: 22148505]

Vasko MR, Guo C, Thompson EL, Kelley MR. The repair function of the multifunctional DNA repair/redox protein APE1 is neuroprotective after ionizing radiation. DNA Repair (Amst). 2011 Sep 5 [PMID: 21741887]

Fishel ML, Jiang Y, Rajeshkumar NV et al. Impact of APE1/Ref-1 redox inhibition on pancreatic tumor growth. Mol Cancer Ther. 2011 Sep [PMID: 21700832]

Jedinak A, Dudhgaonkar S, Kelley MR, Sliva D. Apurinic/Apyrimidinic endonuclease 1 regulates inflammatory response in macrophages. Anticancer Res 2011 Feb [PMID: 21378315]

Jiang A, Gao H, Kelley MR, Qiao X. Inhibition of APE1/Ref-1 redox activity with APX3330 blocks retinal angiogenesis in vitro and in vivo. Vision Res 2011 Jan [PMID: 20937296]

Hiramoto M, Shimizu N, Nishi T, Shima D, Aizawa S, Tanaka H, Hatakeyama M, Kawaguchi H, Handa H. High-performance affinity beads for identifying anti-NF-kappa B drug receptors. Methods Enzymol;353:81-8. 2002 [PMID: 12078530]

Su D, Delaplane S, Luo M, Rempel DL, Vu B, Kelley MR, Gross ML, Georgiadis MM. Interactions of Apurinic/Apyrimidinic Endonuclease with a Redox Inhibitor: Evidence for an Alternate Conformation of the Enzyme. Biochemistry. 2010 Dec 8. [PMID: 21117647]



Procedures**MSDS for NBP1-49581: APE1 Redox Inhibitor (E3330)**

Composition/Information on Ingredient:

Substance Name: E3330

CAS#: 136164-664

Formula: C₂₁H₃₀O₆

SARA 313: No

Hazards Identification:

EMERGENCY OVERVIEW

Caution: Avoid contact and inhalation. Do not breathe dust.

HMIS RATING

Health: 0

Flammability: 0

Reactivity: 0

NFPA RATING

Health: 0

Flammability: 0

Reactivity: 0

Toxicological Information:

ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Transport Information:

DOT

Proper Shipping Name: None

Non-Hazardous for Transport: this substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: This substance is considered to be non-hazardous for air transport.

Regulatory Information:

US CLASSIFICATION AND LABEL TEXT

US Statements: Caution: Avoid contact and inhalation. Do not breathe dust.

US REGULATORY INFORMATION

SARA Listed: No

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR

DSL: No

NDSL: No

This product is for research use only. It is not for drug, household or other uses.

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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Inhibitors are guaranteed for 1 year from date of receipt.

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