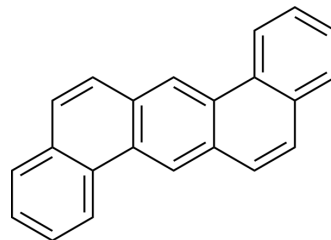


## Dibenz[a,h]anthracene

Cat. No.:	HY-W013053
CAS No.:	53-70-3
Molecular Formula:	C <sub>22</sub> H <sub>14</sub>
Molecular Weight:	278.35
Target:	DNA/RNA Synthesis; Apoptosis; MDM-2/p53
Pathway:	Cell Cycle/DNA Damage; Apoptosis
Storage:	Powder    -20°C    3 years 4°C        2 years In solvent   -80°C    6 months -20°C    1 month



### BIOLOGICAL ACTIVITY

#### Description

Dibenz[a,h]anthracene (DBA) is a polycyclic aromatic hydrocarbon (PAH) of considerable tumorigenicity. Dibenz[a,h]anthracene results in DNA adduct formation leading to the activation of a DNA damage response. Dibenz[a,h]anthracene induces cell cycle arrest and apoptosis via both Tp53-dependent and Tp53-independent mechanisms<sup>[1][2]</sup>.

### REFERENCES

- [1]. K L Platt, et al. Stereoselective metabolism of dibenz(a,h)anthracene to trans-dihydrodiols and their activation to bacterial mutagens. *Environ Health Perspect.* 1990 Aug;88:37-41.
- [2]. Amal I Malik, et al. Hepatic genotoxicity and toxicogenomic responses in Muta™Mouse males treated with dibenz[a,h]anthracene. *Mutagenesis.* 2013 Sep;28(5):543-54.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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