Curcumin (high purity)

Inhibitor of Lipoxygenase and COX

Dual inhibitor of 5-lipoxygenase (IC_{50}=8μM) and cyclooxygenase (COX) (IC_{50}=52μM). Also inhibits glutathione S-transferase, induction of nitric oxide (NO) in activated macrophages and inhibits EGF-induced tyrosine phosphorylation of EGF receptors. Antioxidant. Inhibitor of NAD(P)H:quinone oxidoreductase 1 (NQO1), disrupting the binding of NQO1 to wild type p53 inducing ubiquitin-independent degradation of p53 and inhibits p53-mediated apoptosis in normal thymocytes and myeloid leukemic cells. Has been shown to inhibit NF-κB, possibly through inhibition of JNK (IC_{50}=10μM), the COP9 signalosome kinase (IC_{50}=10μM) and p300/CBP.

Citations: 39 View Online »

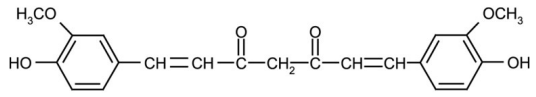
Ordering Information

Order Online »

ALX-350-028-M010	10mg
ALX-350-028-M050	50mg
ALX-350-028-M250	250mg

Manuals, SDS & CofA

View Online »


H3CO
HO
CH
CH
O
C
CH2
C
O
CH
CH
OCH3
OH

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Handling	Protect from light.
Long Term Storage	Ambient
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	1,7-bis(4-Hydroxy-3-methoxyphenyl)-1,6-heptadiene-3,5-dione, Diferuloylmethane
Appearance	Orange-yellow crystalline powder.
CAS	458-37-7
Couple Target	COX, GST, Lipoxygenase, NF-kappaB, NQO
Couple Type	Inhibitor
Formula	$C_{21}H_{20}O_6$
MI	**14:** 2673
MW	368.4
Purity	≥98% (HPLC)
Solubility	Soluble in acetic acid, 100% ethanol (at about 1mg/ml) or DMSO (25mg/ml).
Source	Isolated from turmeric (*Curcuma longa*).

Last modified: May 29, 2024

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