

## Product Datasheet

### Curcumin (orb1308370)

<b>Catalog Number</b>	orb1308370
<b>Category</b>	Small Molecules
<b>Description</b>	Curcumin (Natural Yellow 3) is a specific p300/CREB histone acetyltransferase inhibitor (IC50=25 μM). This polyphenol exhibits antitumor, anti-inflammatory, and antioxidant activities, making it a valuable tool for epigenetic, cancer, and inflammation research in both cellular and animal models.
<b>Target</b>	HDAC, Ferroptosis, Mitophagy, Epigenetic Reader Domain, Histone Acetyltransferase, Autophagy, Nrf2, Influenza Virus
<b>Purity</b>	95.00% (May vary between batches)
<b>MW</b>	368.38
<b>Target Areas</b>	Epigenetic Reader Domain Influenza Virus Autophagy Histone Acetyltransferase Mitophagy Ferroptosis Nrf2 HDAC
<b>Solubility (25°C)</b>	DMSO: 265.00 mg/mL (719.37 mM), Sonication is recommended. Ethanol: 1.80 mg/mL (4.89 mM), Sonication is recommended.
<b>CAS Number</b>	458-37-7
<b>Formula</b>	C <sub>21</sub> H <sub>20</sub> O <sub>6</sub>
<b>SMILES</b>	<chem>COC1=CC(\C=C\C(=O)CC(=O)\C=C\C2=CC(OC)=C(O)C=C2)=CC=C1O</chem>
<b>Storage</b>	-20°C
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.

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