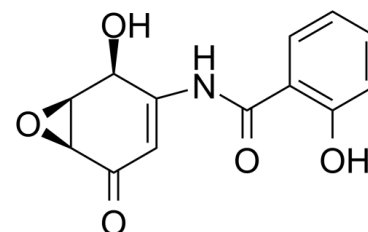


## Data Sheet

<b>Product Name:</b>	(-)-DHMEQ
<b>Cat. No.:</b>	CS-5488
<b>CAS No.:</b>	287194-40-5
<b>Molecular Formula:</b>	C <sub>13</sub> H <sub>11</sub> NO <sub>5</sub>
<b>Molecular Weight:</b>	261.23
<b>Target:</b>	NF-κB
<b>Pathway:</b>	NF-κB
<b>Solubility:</b>	DMSO : ≥ 32 mg/mL (122.50 mM)



### BIOLOGICAL ACTIVITY:

(-)-DHMEQ is a potent **NF-κB** inhibitor. IC<sub>50</sub> & Target: NF-κB<sup>[1]</sup> **In Vitro:** (-)-DHMEQ binds to cysteine 38 of RelA and cysteine 144 of RelB. (-)-DHMEQ at concentrations greater than 25 μM inhibits the LTβ-induced nuclear translocation of FLAG-RelB WT, whereas the inhibitory effect of (-)-DHMEQ on the nuclear translocation of FLAG-RelB (C144S) became weaker at the same concentrations<sup>[1]</sup>.

### PROTOCOL (Extracted from published papers and Only for reference)

**Cell Assay:** <sup>[1]</sup>A549 cells transfectants stably expressing RelB WT and RelB (C144S) are preincubated with various concentrations of (-)-DHMEQ (1, 5, 10, 25, and 50 μM) for 1h and then incubated with or without LTβ (25 ng/mL) for 2 h in the presence or absence of (-)-DHMEQ. Cytoplasmic and nuclear extracts are analyzed by Western blotting<sup>[1]</sup>.

### References:

[1]. Quach HT, et al. Eudesmane-Type Sesquiterpene Lactones Inhibit Nuclear Translocation of the Nuclear Factor κB Subunit RelB in Response to a Lymphotoxin β Stimulation. *Biol Pharm Bull.* 2017;40(10):1669-1677.

[2]. Kang J, et al. Exposure to a combination of formaldehyde and DINP aggravated asthma-like pathology through oxidative stress and NF-κB activation. *Toxicology.* 2018 May 14;404-405:49-58.

### CAIndexNames:

Benzamide, 2-hydroxy-N-[(1S,2S,6S)-2-hydroxy-5-oxo-7-oxabicyclo[4.1.0]hept-3-en-3-yl]-

### SMILES:

O=C1[C@@H](O2)[C@@H]2[C@@H](O)C(NC(C3=C(O)C=CC=C3)=O)=C1

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

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