

<b>Product Name:</b>	Caffeic acid phenethyl ester (CAPE)
<b>Product Number:</b>	C155
<b>CAS Number:</b>	104594-70-9
<b>Molecular Formula:</b>	$C_{17}H_{16}O_4$
<b>Molecular Weight:</b>	284.31
<b>Appearance:</b>	Off-white crystalline powder
<b>Water Content (Karl Fischer):</b>	Not more than 0.2%
<b>Melting Point:</b>	120 - 135°C
<b>Storage Conditions:</b>	-20°C
<b>Description:</b>	Caffeic acid phenethyl ester is a natural phenolic compound from honeybee hives and has demonstrated anti-carcinogenic, anti-bacterial, and antiinflammatory properties.
<b>Mechanism of Action:</b>	Caffeic acid phenethyl ester inhibits bacterial growth by the production of reactive oxygen species (ROS) which disrupt the cell's outer membrane. Anti-inflammatory effects of CAPE arise from inhibiting the release of arachidonic acid from the cell membrane as well as inhibition of COX-1 and COX-2 activity.
<b>Spectrum:</b>	Caffeic acid phenethyl ester is active against <i>Enterococcus faecalis</i> , <i>Listeria monocytogenes</i> , <i>Staphylococcus aureus</i> , and <i>Haemophilus influenzae</i> .
<b>References:</b>	Murtaza, Ghulam, Sabiha Karim, Muhammad Rouf Akram, Shujaat Ali Khan, Saira Azhar, Amara Mumtaz, and Muhammad Hassham Hassan Bin Asad. "Caffeic Acid Phenethyl Ester and Therapeutic Potentials." BioMed Research International 2014 (2014): 1-9. Web.