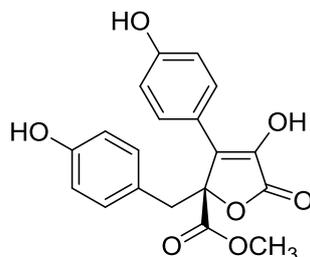


## Butyrolactone II

Code No.: **BIA-B1820**

Pack sizes: **1 mg, 5 mg**



Synonyms :

### Specifications

CAS #	:	<b>87414-44-6</b>
Molecular Formula	:	<b>C<sub>19</sub>H<sub>16</sub>O<sub>7</sub></b>
Molecular Weight	:	<b>356.3</b>
Source	:	<b><i>Aspergillus terreus</i></b>
Appearance	:	<b>Yellow solid</b>
Purity	:	<b>&gt;95% by HPLC</b>
Long Term Storage	:	<b>-20°C</b>
Solubility	:	<b>Soluble in ethanol, methanol, DMF or DMSO.</b>

### Application Notes

Butyrolactone II is one of a family of four butyrolactones isolated from the fungus, *Aspergillus terreus*, by Yamamoto and collaborators at Kanazawa University, Japan in 1983. Butyrolactone II inhibits soybean lipoxygenase (LOX) and  $\alpha$ -glucosidase. Butyrolactone II has antioxidant activity via DPPH radical-scavenging.

### References

1. Metabolic products of *Aspergillus terreus*. IX. Biosynthesis of butyrolactone derivatives isolated from strains IFO 8835 and 4100. Nitta K. et al., Chem. Pharm. Bull. 1983, 31, 1528.
2. Soybean lipoxygenase inhibitory and DPPH radical-scavenging activities of aspernolide A and butyrolactones I and II. Sugiyama Y. et al., Biosci. Biotechnol. Biochem. 2010, 74, 881.
3. Effect on  $\alpha$ -glucosidase inhibition and antioxidant activities of butyrolactone derivatives from *Aspergillus terreus* MC751. Dewi T.R. et al., Med. Chem. Res. 2014, 23, 454.