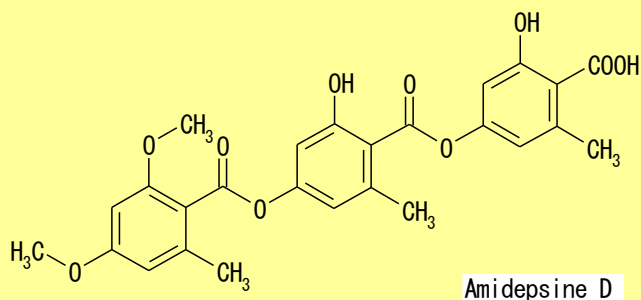


## Amidepsine D

Cat.# BLK0314

## Structure

Origin: *Humcola* sp. FO-2942

CAS Registry Number: 79786-34-8

CA Index Name: 4-[[4-[(2,4-Dimethoxy-6-methylbenzoyl)oxy]-2-hydroxy-6-methylbenzoyl]oxy]-2-hydroxy-6-methylbenzoic Acid

Appearance: slightly pink white powder

Molecular Formula/ Weight: C<sub>26</sub>H<sub>24</sub>O<sub>10</sub>=496.48

Melting Point: 168-169°C Purity:&gt;95.0% by HPLC

Solubility: Sol. in Methanol, Benzene, EtOAc  
Inso. in water, Hexane

pKa:

log P:

## Background Information:

Biological activity: Diacylglycerol Acyltransferase (DGAT) is exclusively involved in triacylglycerol formation. Excessive accumulation of triacylglycerol can cause fatty liver, obesity and hypertriglyceridemia, which lead to serious diseases such as atherosclerosis, diabetes and metabolic disorders. Therefore, DGAT is target for pharmaceutical inhibition. The inhibitory activity of DGAT was tested by an enzyme assay using rat liver microsomes and by a using RAJI cells. Amidepsines are the first DGAT inhibitors.

## Handling and Storage:

Store at -20°C.

## References:

1. H.Tomoda et al., J.Antibiot., **48**, 937 (1995).
2. H.Tomoda et al., J.Antibiot., **48**, 942 (1995).
3. H.Tomoda et al., J.Antibiot., **49**, 929 (1996).
4. J.A.Elix et al., Aust.J. Chem., **34**, 1757 (1981).

Manufactured with Cortesy strain from The Kitasato Institute.