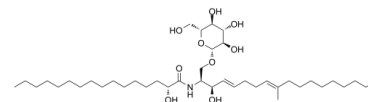


## Data Sheet

<b>Product Name:</b>	Cerebroside B
<b>Cat. No.:</b>	CS-0023857
<b>CAS No.:</b>	88642-46-0
<b>Molecular Formula:</b>	C <sub>41</sub> H <sub>77</sub> NO <sub>9</sub>
<b>Molecular Weight:</b>	728.05
<b>Target:</b>	Fungal
<b>Pathway:</b>	Anti-infection
<b>Solubility:</b>	10 mM in DMSO



### BIOLOGICAL ACTIVITY:

Cerebroside B, a sphingolipid compound, is a non-racespecific elicitor, which elicits defense responses in rice<sup>[1]</sup>. **In Vitro:** Treatment of lettuce (*Lactuca sativa*), tomato (*Lycopersicon esculentum*), melon (*Cucumis melo*), and sweet potato (*Ipomoea batatas*) with Cerebroside B resulted in resistance to infection by each pathogenic strain of *F. oxysporum*. Induction of pathogenesis-related genes and H<sub>2</sub>O<sub>2</sub> production by treatment with Cerebroside B are observed in tomato root tissues<sup>[1]</sup>.

### References:

[1]. Kenji Umemura, et al. Cerebroside elicitor confers resistance to fusarium disease in various plant species. *Phytopathology*. 2004 Aug;94(8):813-8.

### CAIndexNames:

Hexadecanamide, N-[(1S,2R,3E,7E)-1-[(β-D-glucopyranosyloxy)methyl]-2-hydroxy-8-methyl-3,7-heptadecadien-1-yl]-2-hydroxy-, (2R)-

### SMILES:

CCCCCCCCCCCC[C@@H](O)C(N[C@H]([C@H](O)/C=C/CC/C=C(C)/CCCCCCCC)CO[C@@H]1O[C@@H]([C@H]([C@@H]([C@H]1O)O)O)CO)=O

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

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