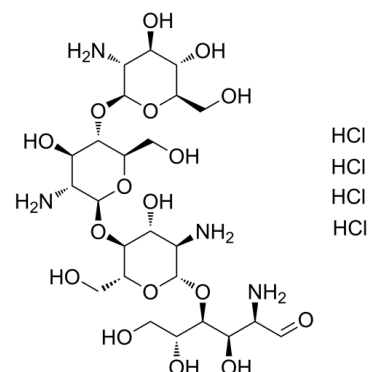


Data Sheet

Product Name:	Chitotetraose (tetrahydrochloride)
Cat. No.:	CS-0135238
CAS No.:	117399-50-5
Molecular Formula:	C ₂₄ H ₅₀ Cl ₄ N ₄ O ₁₇
Molecular Weight:	808.48
Target:	Others
Pathway:	Others
Solubility:	H ₂ O : 50 mg/mL (ultrasonic)



BIOLOGICAL ACTIVITY:

Chitotetraose tetrahydrochloride is an arbuscular mycorrhizal (AM) fungal short-chain chitin oligomer. Chitotetraose tetrahydrochloride activates the AM fungal-dependent conserved symbiosis signaling pathway (CSSP) in actinorhizal plant species^[1].

References:

[1]. Mireille Chabaud, et al. Chitotetraose activates the fungal-dependent endosymbiotic signaling pathway in actinorhizal plant species. PLoS One. 2019 Oct 10;14(10):e0223149.

CAIndexNames:

D-Glucose, O-2-amino-2-deoxy-β-D-glucopyranosyl-(1→4)-O-2-amino-2-deoxy-β-D-glucopyranosyl-(1→4)-O-2-amino-2-deoxy-β-D-glucopyranosyl-(1→4)-2-amino-2-deoxy-, hydrochloride (1:4)

SMILES:

OC[C@@H](O[C@@H]1O[C@H]([C@H](O)CO)[C@H](O)[C@@H](N)C=O)[C@H]([C@@H]([C@H]1N)O)O[C@@H]([C@@H]([C@H]2O)N)O[C@@H]([C@@H]2O)[C@@H]([C@H]3O)N)O[C@@H]([C@H]3O)CO.CO.Cl.Cl.Cl.Cl

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

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