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DATASHEET

Ecdysone

Product overview

 Name
 Ecdysone

 Cat No
 HB3881

 Purity
 >95%

Description Ecdysone receptor (EcR) agonist

Biological Data

Biological description

Steroidal prohormone of the major insect molting hormone 20-hydroxyecdysone. A member of the ecdysteroid family. Ecdysone receptor (EcR) agonist. Induces the expression of genes coding for proteins that the larva requires, and it causes chromosome puffs (sites of high expression) to form in polytene chromosomes. Plays a key role in insect development, cell proliferaton, growth and apoptosis by controlling gene expression involved in moulting and metamorphosis. It acts through a heterodimeric receptor comprising the ecdysone receptor and the ultraspiracle proteins (USP). Appears in many plants mostly as a protection agent (toxins or antifeedants) against herbivorous insects. Used for controlled gene expression in scientific research, agriculture and medicine. Used for the development of selective insect growth regulators for use as environmentally benign insecticides.

Solubility & Handling

Storage instructions Storage of solutions

+4°C

Otorage or solutions

Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Shipping Conditions

Important

Stable for ambient temperature shipping. Follow storage instructions on receipt.

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Molecular Weight Chemical structure 464.6

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CAS Number PubChem identifier

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SMILES

C[C@H]([C@H](O)CCC(C)(C)O)[C@H]1CC[C@@]2(O)C3=CC(=O)[C@@H]4C[C@@H](O)[C@W](O)[C@W](O)[C@W](O)[C@W](O)[C@W](O)[C@W](O)[C@W](O)[C@W](O)[C@W](O)[C@W](O)[C@W](O)[C@W](O)[C@W](O)[C@W](O)[C@W](O)[C@W](O)[CW](O

H](O)C[C@]4(C)[C@H]3CC[C@]12C UPEZCKBFRMILAV-DBDKQAFGSA-N

InChiKey Appearance

White to off-white solid