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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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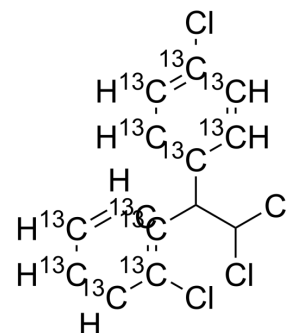
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Mitotane-¹³C₁₂

Cat. No.:	HY-13690S3
CAS No.:	2483736-36-1
Molecular Formula:	C ₂ ¹³ C ₁₂ H ₁₀ Cl ₄
Molecular Weight:	331.95
Target:	Isotope-Labeled Compounds; Apoptosis
Pathway:	Others; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Mitotane-¹³C₁₂ (2,4'-DDD-¹³C₁₂) is ¹³C labeled Mitotane. Mitotane (2,4'-DDD), an isomer of DDD and derivative of dichlorodiphenyltrichloroethane (DDT), is an antineoplastic agent, can be used to research adrenocortical carcinoma. Mitotane exert its adrenocorticolytic effect at least in part through lipotoxicity induced by intracellular free cholesterol (FC) accumulation. Mitotane can have direct pituitary effects on corticotroph cells. Mitotane can induce CYP3A4 gene expression via steroid and xenobiotic receptor (SXR) activation, and has agent-agent interactions^{[1][2][3][4][1][2][3][4][5]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Takeshita A, Igarashi-Migitaka J, Koibuchi N, Mitotane induces CYP3A4 expression via activation of the steroid and xenobiotic receptor. *J Endocrinol*. 2013 Feb 15;216(3):297-305.
- [3]. Doghman M, et al. Lack of long-lasting effects of mitotane adjuvant therapy in a mouse xenograft model of adrenocortical carcinoma. *Mol Cell Endocrinol*. 2013 Dec 5;381(1-2):66-9.
- [4]. Zatelli MC, et al. Therapeutic concentrations of mitotane (o,p'-DDD) inhibit thyrotroph cell viability and TSH expression and secretion in a mouse cell line model. *Endocrinology*. 2010 Jun;151(6):2453-61.
- [5]. Warde KM, et al. Mitotane Targets Lipid Droplets to Induce Lipolysis in Adrenocortical Carcinoma. *Endocrinology*. 2022 Sep 1;163(9):bqac102.

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

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