Product Data Sheet

Dexamethasone-d₅

Cat. No.: HY-14648S

CAS No.: 358731-91-6Molecular Formula: $C_{22}H_{24}D_{5}FO_{5}$ Molecular Weight: 397.49

Target: Glucocorticoid Receptor; Bacterial; Autophagy; SARS-CoV; Complement System;

Mitophagy; Antibiotic

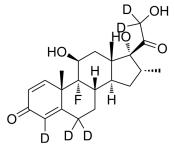
Pathway: Immunology/Inflammation; Vitamin D Related/Nuclear Receptor; Anti-infection;

Autophagy

Storage: Powder -20°C 3 years

In solvent -80°C 6 months

-20°C 1 month



BIOLOGICAL ACTIVITY

agonist. Dexamethasone also significantly decreases CD11b, CD18, and CD62L expression on neutrophils, and CD11b and CD18 expression on monocytes. Dexamethasone is highly effective in the control of COVID-19 infection. Dexamethasone inhibits production of exosomes containing inflammatory microRNA-155 in lipopolysaccharide-induced macrophage

inflammatory responses[1][2].

In Vitro Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as

tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to

affect the pharmacokinetic and metabolic profiles of $drugs^{[1]}$.

 $\label{eq:mce} \mbox{MCE has not independently confirmed the accuracy of these methods. They are for reference only.}$

REFERENCES

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[3]. LaLone CA, et al. Effects of a glucocorticoid receptor agonist, Dexamethasone, on fathead minnow reproduction, growth, and development. Environ Toxicol Chem. 2012 Mar;31(3):611-22.

[4]. Heidi Ledford. et al. Coronavirus Breakthrough: Dexamethasone Is First Drug Shown to Save Lives. Nature. 2020 Jun 16.

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 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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