
Product Data Sheet

Product Name: Deflazacort-D7

Cat. No.: GC63738

Chemical Properties

Cas. No.

Formula C₂₅H₂₄D₇NO₆

M.Wt

448.56

Solubility

Storage

Store at -20°C

General tips

For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Deflazacort-D7 is the deuterium labeled Deflazacort. Deflazacort, a glucocorticoid, is an inactive prodrug and is converted rapidly to the active metabolite 21-desacetyldeflazacort. Deflazacort is used as an anti-inflammatory and immunosuppressant[1].

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].

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216. [2]. Mollmann, H., et al., Pharmacokinetic/pharmacodynamic evaluation of deflazacort in comparison to methylprednisolone and prednisolone. *Pharmaceutical research*, 1995. 12(7): p. 1096-1100.

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

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