

Product Data Sheet

Product Name: Prednisone-d8

Cat. No.: GC71622

Chemical Properties

Cas. No.

Formula $C_{21}H_{18}D_8O_5$

M.Wt 366.48

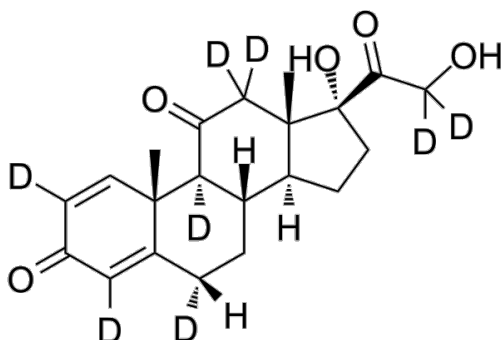
Solubility

Storage

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

Prednisone-d8 is the deuterium labeled Prednisone. Prednisone (Adasone) is a synthetic corticosteroid agent that is particularly effective as an immunosuppressant compound.

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug

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

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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].

References:

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. RIEMER AD. Application of the newer corticosteroids to augment diuresis in congestive heart failure. *Am J Cardiol*. 1958 Apr;1(4):488-96.
- [3]. Zhang H, et al. Prednisone adding to usual care treatment for refractory decompensated congestive heart failure. *Int Heart J*. 2008 Sep;49(5):587-95.

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