
Product Data Sheet

Product Name: (S)-(+)-Ibuprofen D3

Cat. No.: GC64804

Chemical Properties

Cas. No. 1329643-44-8

Formula C₁₃H₁₅D₃O₂ M.Wt 209.3Solubility Ethanol : 100 mg/mL (477.78 mM; Need ultrasonic); DMSO : Store
100 mg/mL (477.78 mM; Need ultrasonic) Storage at -
20°CGeneral 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 (S)-(+)-Ibuprofen D3

Background

(S)-(+)-Ibuprofen D3 ((S)-Ibuprofen D3) is a deuterium labeled (S)-(+)-Ibuprofen. (S)-(+)-Ibuprofen is the S(+)-enantiomer of Ibuprofen that inhibits COX-1 and COX-2 activity with IC₅₀s of 2.1 μM and 1.6 μM. (S)-(+)-Ibuprofen has analgesic, antiinflammatory and antipyretic effects[1][2].

[1]. Evans AM, et al. Comparative pharmacology of S(+)-ibuprofen and (RS)-ibuprofen. Clin Rheumatol. 2001 Nov;20 Suppl 1:S9-14.

[2]. Xu HR, et al. The effect of CYP2C19 activity on pharmacokinetics of lansoprazole and its active metabolites in healthy subjects. Pharm Biol. 2010 Aug;48(8):947-52.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA