

Product Data Sheet

Product Name: Nitisinone

Cat. No.: GC11660

Chemical Properties

Cas. No. 104206-65-7

Chemical Name 2-(2-nitro-4-(trifluoromethyl)benzoyl)cyclohexane-1,3-dione

SMILES FC(F)(F)C1=CC(N(=O)=O)=C(C(C2C(CCCC2=O)=O)=O)C=C1

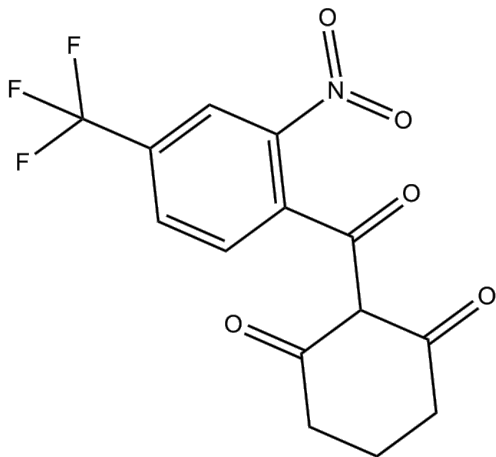
Formula $C_{14}H_{10}F_3NO_5$ M.Wt 329.23

Solubility $\geq 13.55\text{mg/mL}$ in DMSO 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

Nitisinone(SC0735) is an inhibitor of the enzyme 4-hydroxyphenylpyruvate dioxygenase. Target: 4-Hydroxyphenylpyruvate Dioxygenase. Nitisinone is a drug used to slow the effects of hereditary tyrosinemia type 1. Nitisinone reduced urinary HGA levels from an average of 4.0 ± 1.8 (SD) g/day to 0.2 ± 0.2 g/day ($P < .001$). Low-dose nitisinone effectively reduced urinary HGA levels in patients with alkaptonuria. Future long-term clinical trials are planned to determine the benefits of nitisinone in

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

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preventing joint deterioration and providing pain relief, and its long-term side effects [1]. Nitisinone can prevent the development of liver disease and significantly reduce the risk of developing hepatocellular carcinoma; however, vigorous surveillance for the development of HCC needs to be continued lifelong [2].

References:

- [1]. Suwannarat, P., et al., Use of nitisinone in patients with alkaptonuria. *Metabolism*, 2005. 54(6): p. 719-28.
- [2]. Santra, S. and U. Baumann, Experience of nitisinone for the pharmacological treatment of hereditary tyrosinaemia type 1. *Expert Opin Pharmacother*, 2008. 9(7): p. 1229-36.

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