

Product Data Sheet

Product Name: Direct Black 38
 Cat. No.: GC38068

Chemical Properties

Cas. No. 1937-37-7

SMILES O=S(C1=C(/N=N/C2=CC=C(C3=CC=C(/N=N/C4=CC=C(N)C=C4N)C=C3)C=C2)C(N)=C5C(O)=C(/N=N/C6=CC=CC=C6)C(S(=O)(O[Na])=O)=CC5=C1)(O[Na])=O

Formula C₃₄H₂₅N₉Na₂O₇S₂

M.Wt 781.73

Solubility Water: 5 mg/mL (6.40 mM)

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

Ferristatin II is an inhibitor of iron uptake.¹ It inhibits iron uptake (IC₅₀ = ~12 ?M), as well as induces degradation of transferrin receptor protein 1 (TfR1), an effect that can be reversed by the lipid membrane disruptor nystatin, in HeLa cells. *In vivo* ferristatin II (0.2, 10, and 40 mg/kg) reduces serum iron levels and transferrin saturation in rats. It also suppresses traumatic brain injury-induced lipid peroxidation, neuronal apoptosis, and the number of cortical iron deposits in rats.²

1.Byrne, S.L., Buckett, P.D., Kim, J., et al.Ferristatin II promotes degradation of transferrin receptor-1 in vitro and in vivoPLoS One8(7)e70199(2013) 2.Cheng, Y., Qu, W., Li, J., et al.Ferristatin II, an iron uptake inhibitor, exerts neuroprotection against traumatic brain injury via suppressing ferroptosisACS Chem. Neurosci.13(5)664-675(2022)

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

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