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## Product Data Sheet

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Product Name: Nigranoic acid

Cat. No.: GC61134

**Chemical Properties**

Cas. No. 39111-07-4

SMILES OC(CC[C@@]12[C@]3([C@](CC[C@H]2C(C)=C)([H])[C@]4([C@@](C)([C@]([C@H](C)CC/C=C(C)\C(O)=O)([H])CC4)CC3)C)C1)=O

Formula	C <sub>30</sub> H <sub>46</sub> O <sub>4</sub>	M.Wt	470.68
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Solubility	Storage	Store at -20°C
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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**

Nigranoic acid is a triterpenoid separated from Schisandra chinensis. Nigranoic acid inhibits HIV-1 reverse transcriptase. Nigranoic acid exhibits protective effects on brain through PARP/AIF signaling pathway in cerebral ischemia-reperfusion animal model[1] [2].

Nigranoic acid has a strong protective effect on rat cerebral ischemia-reperfusion injury, and acts by downregulating nerve cell apoptosis by preventing the overactivation of PARP and AIF nuclear translocation[2]. Nigranoic acid (1 mg/kg; i.g.; 6 hours and 2 hours before brain ischemia) significantly decreases apoptosis and the expression levels of AIF protein, PARP protein, and AIF mRNA at different time-points[2]. Animal Model: Sprague-Dawley rats (200-300 g), ischemia-reperfusion model[2]

[1]. Sun HD, et al. Nigranoic acid, a triterpenoid from Schisandra sphaerandra that inhibits HIV-1 reverse transcriptase. J Nat Prod. 1996 May;59(5):525-7. [2]. Feng T, et al. Protective effects of nigranoic acid on cerebral ischemia-reperfusion injury and its mechanism involving apoptotic signaling pathway. Cell Biochem Biophys. 2015

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

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Jan;71(1):345-51.

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