

Product Data Sheet

Product Name: NBDHEX

Cat. No.: GC39315

Chemical Properties

Cas. No. 787634-60-0

SMILES OCCCCCSC1=CC=C([N+](=[O-])=O)C2=NON=C21

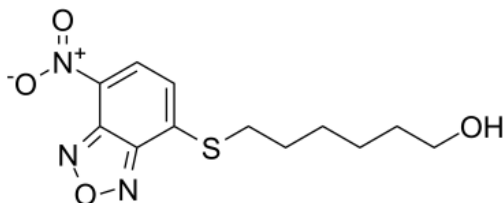
Formula $C_{12}H_{15}N_3O_4S$ M.Wt 297.33

Solubility DMSO: 125 mg/mL (420.41 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

NBDHEX is a potent glutathione S-transferase P1-1 (GSTP1-1) inhibitor. NBDHEX induces apoptosis of tumor cells. NBDHEX acts as an anticancer agent by inhibiting GSTs catalytic activity, avoiding inconvenience of the inhibitor extrusion from the cell by specific pumps and disrupting the interaction between the GSTP1-1 and key signaling effectors. NBDHEX can also act as late-phase autophagy inhibitor[1][2].

[1]. Sha HH, et al. 6-(7-nitro-2,1,3-benzoxadiazol-4-ylthio) hexanol: a promising new anticancer

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

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compound. Biosci Rep. 2018 Feb 13;38(1). pii: BSR20171440. [2]. Filomeni G, et al. 6-(7-Nitro-2,1,3-benzoxadiazol-4-ylthio)hexanol, a specific glutathione S-transferase inhibitor, overcomes the multidrug resistance (MDR)-associated protein 1-mediated MDR in small cell lung cancer. Mol Cancer Ther. 2008 Feb;7(2):371-9. [3]. Pellizzari Tregno F, et al. In vitro and in vivo efficacy of 6-(7-nitro-2,1,3-benzoxadiazol-4-ylthio)hexanol (NBDHEX) on human melanoma. Eur J Cancer. 2009 Sep;45(14):2606-17.

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