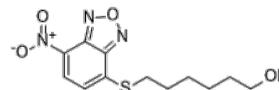


**Product Name** : NBDHEX  
**Cat. No.** : PC-26377  
**CAS No.** : 787634-60-0  
**Molecular Formula** : C<sub>12</sub>H<sub>15</sub>N<sub>3</sub>O<sub>4</sub>S  
**Molecular Weight** : 297.33  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## Biological Activity

NBDHEX is a potent glutathione S-transferase (GST) inhibitor, inhibits human glutathione S-transferases GSTA1-1, GSTP1-1 and GSTM2-2 with IC<sub>50</sub> of 25 μM, 0.8 μM and <0.01 μM, is cytotoxic toward P-glycoprotein-overexpressing tumor cell lines. NBDHEX not only is cytotoxic toward the parental small cell lung cancer H69 cell line (LC<sub>50</sub>) of 2.3 +/- 0.6 micromol/L but also overcomes the multidrug resistance of its variant, H69AR, which overexpresses the ATP-binding cassette transporter multidrug resistance-associated protein 1 (MRP1; LC<sub>50</sub>) of 4.5 +/- 0.9 micromol/L. NBDHEX overcomes the multidrug resistance (MDR)-associated protein 1-mediated MDR in small cell lung cancer. NBDHEX overcomes the MDR1-P-glycoprotein and MRP1-mediated multidrug resistance in acute myeloid leukemia cells.

## References

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Turella P, et al. J Biol Chem. 2006 Aug 18;281(33):23725-32.  
Filomeni G, et al. Mol Cancer Ther. 2008 Feb;7(2):371-9.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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