

Please note: This document was created automatically and is not a substitute for the manufacturer's original document.

## Product Datasheet

### Phenylhexyl isothiocyanate FBM-10-5258

Article Name	Phenylhexyl isothiocyanate
Biozol Catalog Number	FBM-10-5258
Supplier Catalog Number	10-5258
Alternative Catalog Number	FBM-10-5258-5MG,FBM-10-5258-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Chemopreventive, HDAC inhibitor, p53 reactivator...
Molecular Weight	219.35
Purity	>98% by TLC NMR (Conforms)
Form	Colorless to pale yellow liquid
CAS Number	[133920-06-6]
Formula	C13H17NS
Application Notes	<p>Isothiocyanate constituents of cruciferous vegetables are potent chemopreventive agents for carcinogen-induced cancers in rodents.<sup>1</sup> PHITC was the most potent in a series of synthetic arylalkyl isothiocyanates at inhibition of tumorigenicity by NNK, a tobacco-derived nitrosamine, in a mouse model.<sup>2</sup> It was also found to induce apoptosis and inhibit leukemia cell growth in vivo<sup>3</sup> and was shown to have dual function as a histone deacetylase inhibitor and hypomethylating agent<sup>4</sup>. PHITC was also shown to restore the activity of mutant p53 and reactivate the p53 pathway in human myeloid leukemia M2 cells.<sup>5</sup></p>