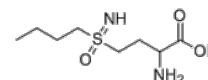


Product Name : Buthionine Sulfoximine
Cat. No. : PC-62928
CAS No. : 5072-26-4
Molecular Formula : C₈H₁₈N₂O₃S
Molecular Weight : 222.305
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

Buthionine Sulfoximine (BSO) is a glutathione (GSH)-depleting reagent that inhibits gamma-glutamylcysteine synthetase (GCS, also referred to as glutamate-cysteine ligase, GLCL), the enzyme required in the first step of glutathione synthesis. Buthionine Sulfoximine synergistically enhances melphalan activity against preclinical models of multiple myeloma.

References

Habermann KJ, et al. Cell Death Dis. 2017 Oct 5;8(10):e3067.

Yang WS, et al. Cell. 2014 Jan 16;156(1-2):317-331.

Tagde A, et al. Blood Cancer J. 2014 Jul 18;4:e229.

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

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