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## Product Datasheet

### L-Buthionine Sulfoximine, CAS [[5072-26-4]] FBM-10-4572

Article Name	L-Buthionine Sulfoximine, CAS [[5072-26-4]]
Biozol Catalog Number	FBM-10-4572
Supplier Catalog Number	10-4572
Alternative Catalog Number	FBM-10-4572-100MG,FBM-10-4572-250MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	GCL inhibitor...
Molecular Weight	222.31
Purity	>98%, NMR (Conforms)
Form	White solid
CAS Number	[5072-26-4]
Formula	C8H18N2O3S
Application Notes	Buthionine sulfoximine is an irreversible inhibitor of gamma-glutamylcysteine ligase (GCL). GCL is the first enzyme of the cellular glutathione biosynthetic pathway. Dysregulation of glutathione homeostasis is involved in many diseases including cancer, diabetes, neurodegenerative disorders and HIV/AIDS. <sup>1</sup> Most disease states involve decreased glutathione synthesis, however, in cancer, it is increased supporting cellular proliferation and protecting cancer cells. Pharmacological inhibition of GCL has been examined as a potential cancer treatment. <sup>2-4</sup>