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## Product Datasheet

### 6-Thioguanine, CAS [[154-42-7]] FBM-10-1282

Article Name	6-Thioguanine, CAS [[154-42-7]]
Biozol Catalog Number	FBM-10-1282
Supplier Catalog Number	10-1282
Alternative Catalog Number	FBM-10-1282-100MG, FBM-10-1282-1G
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Anticancer agent / downregulates DNMT1...
Molecular Weight	167.19
Purity	96% by HPLC NMr (Conforms)
Form	Pale yellow solid
CAS Number	[154-42-7]
Formula	C5H5N5S
Application Notes	After incorporation into DNA, it disrupts cytosine methylation by DNA methyltransferases in vitro and acts as a DNA demethylating agent in vivo. <sup>1</sup> It reactivates epigenetically silenced genes in acute lymphoblastic leukemia cells by facilitating proteasome-mediated degradation of DNA methyltransferase (DNMT1). <sup>2</sup> Incorporates into DNA and induces double strand breaks which destabilize DNA structure resulting in cytotoxicity. <sup>3</sup> Selectively kills BRCA2-defective tumors and overcomes PARP inhibitor resistance in a xenograft model. <sup>4</sup> Anticancer and immunosuppressive activity.