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Product Datasheet

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

Artikelname	6-Thioguanine, CAS [[154-42-7]]
Artikelnummer	FBM-10-1282
Hersteller Artikelnummer	10-1282
Alternativnummer	FBM-10-1282-100MG,FBM-10-1282-1G
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	Anticancer agent / downregulates DNMT1...
Molekulargewicht	167.19
Reinheit	96% by HPLC NMr (Conforms)
Formulierung	Pale yellow solid
CAS Nummer	[154-42-7]
Formel	C ₅ H ₅ N ₅ S
Anwendungsbeschreibung	After incorporation into DNA, it disrupts cytosine methylation by DNA methyltransferases in vitro and acts as a DNA demethylating agent in vivo. ¹ It reactivates epigenetically silenced genes in acute lymphoblastic leukemia cells by facilitating proteasome-mediated degradation of DNA methyltransferase (DNMT1). ² Incorporates into DNA and induces double strand breaks which destabilize DNA structure resulting in cytotoxicity. ³ Selectively kills BRCA2-defective tumors and overcomes PARP inhibitor resistance in a xenograft model. ⁴ Anticancer and immunosuppressive activity.