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# Product Datasheet

## Dp44mT, CAS [[152095-12-0]]
## FBM-10-4951

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|---|---|
| Artikelname | Dp44mT, CAS [[152095-12-0]] |
| Artikelnummer | FBM-10-4951 |
| Hersteller Artikelnummer | 10-4951 |
| Alternativnummer | FBM-10-4951-5MG,FBM-10-4951-25MG |
| Hersteller | Focus Biomolecules |
| Kategorie | Biochemikalien |
| Produktbeschreibung | Metal chelator... |
| Molekulargewicht | 285.37 |
| Reinheit | 98% by TLC NMR (Conforms) |
| Formulierung | Orange solid |
| CAS Nummer | [152095-12-0] |
| Formel | C14H15N5S |

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| Anwendungsbeschreibung | Dp44mT is a metal chelator with potent antitumor activity.1,2 It displayed an average IC50 of 30 nM over 28 cancer cell lines (IC50 range was 5 nM to 400 nM).2 Dp44mT retained its antiproliferative activity in both etoposide-resistant MCF-7/VP clones (MCF-7 breast cancer cells) and vinblastine-resistant KB-VB1 clones (KB3-1 epidermoid carcinoma cells) with an IC50 = 12 nM for both lines.2 The potency of Dp44mT has been attributed to the high redox activity of the Dp44mT-Fe complex leading to cytotoxic ROS generation. The antitumor activity of Dp44mT may also be mediated by a redox active copper complex that causes cellular glutathione depletion and lysosomal damage.3,4 It also inhibited T-cell activation and prevented CD25 up-regulation via a copper-dependent mechanism.5 |