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## Product Datasheet

**CBR-5884**

**FBM-10-1588**

Artikelname	CBR-5884
Artikelnummer	FBM-10-1588
Hersteller Artikelnummer	10-1588
Alternativnummer	FBM-10-1588-5MG,FBM-10-1588-25MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	PHGDH / serine biosynthesis inhibitor...
Molekulargewicht	336.39
Reinheit	98% by TLC, NMR (Conforms)
Formulierung	Off-white solid
CAS Nummer	[681159-27-3]
Formel	C <sub>14</sub> H <sub>12</sub> N <sub>2</sub> O <sub>4</sub> S <sub>2</sub>
Anwendungsbeschreibung	<p>Potent and selective inhibitor of 3-phosphoglycerate dehydrogenase (PHGDH), IC<sub>50</sub>=33 μM<sup>1</sup>. The action of PHGDH is the first committed step of serine biosynthesis<sup>2</sup> and certain cancer cells overexpress PHGDH<sup>3</sup>. CBR-5884 inhibits serine biosynthesis in cells with no effect on two other dehydrogenases, lactate dehydrogenase and MDH1 and without general cytotoxic effects up to 40 μM. CBR-5884 is selectively toxic to tumor cells with high serine synthesis activity. A novel tool for selective inhibition of serine biosynthesis in cells which also provides further proof that PHGDH is a viable target for the development of novel anticancer agents<sup>1</sup>.</p>