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Product Datasheet

R162 **FBM-10-4603**

Artikelname	R162
Artikelnummer	FBM-10-4603
Hersteller Artikelnummer	10-4603
Alternativnummer	FBM-10-4603-10MG,FBM-10-4603-50MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	Glutamate Dehydrogenase 1 inhibitor...
Molekulargewicht	264.28
Reinheit	98% by TLC, NMR (Conforms)
Formulierung	Orange solid
CAS Nummer	[64302-87-0]
Formel	C17H12O3

Anwendungsbeschreibung	<p>R162 (64302-87-0) is a selective inhibitor of glutamate dehydrogenase 1 (GDH1), a commonly upregulated enzyme in human cancers ($K_i = 28.6 \mu\text{M}$). It does not inhibit the activity of other NADPH enzymes such as 6-phosphogluconate dehydrogenase and fumarate hydratase. R162 treatment lead to decreased fumarate levels, lower glutathione peroxidase activity, increased ROS levels and reduced cell proliferation in H1299 and MDA-MB231 cells. R162 sensitizes LKB-1 deficient tumor cells to anoikis induction. R162 treatment (at 20 mg/kg/day) significantly attenuates metastatic potential in a xenograft mouse model.² GDH1 is a promising antimetastasis target and R162 us a useful tool for proof of principal studies.</p>
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