

Please note: This document was created automatically and is not a substitute for the manufacturer's original document.

Product Datasheet

R162, CAS [[64302-87-0]]

FBM-10-4603

Article Name	R162, CAS [[64302-87-0]]
Biozol Catalog Number	FBM-10-4603
Supplier Catalog Number	10-4603
Alternative Catalog Number	FBM-10-4603-10MG, FBM-10-4603-50MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Glutamate Dehydrogenase 1 inhibitor...
Molecular Weight	264.28
Purity	98% by TLC, NMR (Conforms)
Form	Orange solid
CAS Number	[64302-87-0]
Formula	C17H12O3

Application Notes

R162 (64302-87-0) is a selective inhibitor of glutamate dehydrogenase 1 (GDH1), a commonly upregulated enzyme in human cancers ($K_i = 28.6 \mu M$). 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.