

Product Name	BR-5884	
Synonyms		
Cat No.	22643 N S	
CAS Number	HN S O	
Molecular Formula	14H12N2O4S2	
Formula Weight	6.39	
Chemical Name	_	
Description	BR-5884 is an ?selective, active of phosphoglycerate dehydrogenase (PHGDH) inhibitor with an IC50 of 33 µM.?CBR-56 hibits de novo serine synthesis in cancer cells and is selectively toxic to cancer cell lines with high serine biosynthetic ctivity.?CBR-5884 selectively inhibits the proliferation of melanoma and breast cancer lines that have a high propensity erine synthesis.?Biochemical characterization of the inhibitor revealed that it was a noncompetitive inhibitor that showe ne-dependent onset of inhibition and disrupted the oligomerization state of PHGDHCBR-5884 (15 or 30 µM; 3-5 days) electively inhibits breast cancer lines that have a high propensity for serine synthesis. CBR-5884 (15 or 30 µM; 3-5 days so selectively inhibits the proliferation of melanoma.	c for ed a
Pathway	etabolic Enzyme/Protease	
Target	ehydrogenase	
Receptor	HGDH;serine synthesis	
Solubility	MSO:47 mg/mL (139.72 mM; Need ultrasonic);H2O:< 0.1 mg/mL (insoluble)	
SMILES	COC(=O)c1sc(NC(=O)c2ccco2)c(SC#N)c1C	
Storage	20°C)	
Stability	2 years	
Reference		

1. Edouard Mullarky et al. Identification of a small molecule inhibitor of 3-phosphoglycerate dehydrogenase to target serine biosynthesis in cancers Proc Natl Acad Sci U S A, 2016 Feb 16, 113(7):1778-83.