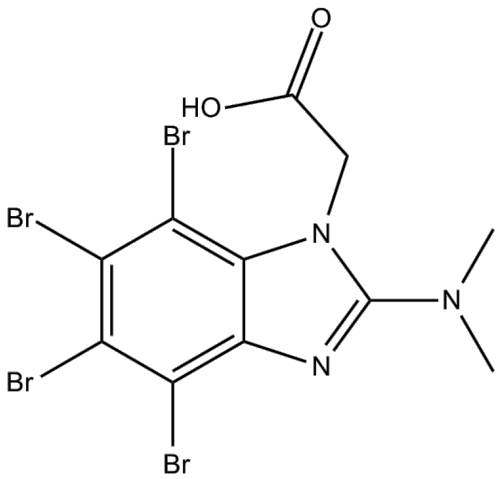
Product Data Sheet

Product Name: TMCB
Cat. No.: GC16413

Chemical Properties

Cas. No.	905105-89-7		
Chemical Name	4,5,6,7-tetrabromo-2-(dimethylamino)-1H-benzimidazole-1-acetic acid		
SMILES	CN(C1=NC2=C(Br)C(Br)=C(Br)C(Br)=C2N1CC(O)=O)C		
Formula	$C_{11}H_9Br_4N_3O_2$	M.Wt	534.82
Solubility	25mM in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

TMCB is a dual inhibitor of casein kinase 2 (CK2) and ERK8 (IC50 = 0.5 µM for both).[1] It also binds to Pim-1, HIPK2, and DYRK1A (Kis = 8.65, 15.25, and 11.9 µM, respectively) and inhibits greater than 50% of the activity of five kinases, including CK2, ERK8, and DYRK2, in a panel of 78 kinases at 10 µM. TMCB induces apoptosis in Jurkat cells when used at concentrations ranging from 10 to 50 µM.

Caution: Product has not been fully validated for medical applications. For research use only.
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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Reference:

[1]. Pagano, M.A., Bain, J., Kazimierczuk, Z., et al. The selectivity of inhibitors of protein kinase CK2: An update. Biochem. J. 415(3), 353-365 (2008).

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