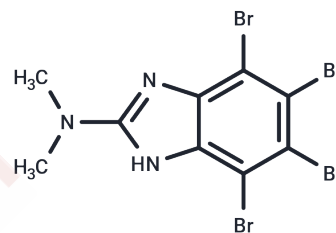


DMAT

Chemical Properties

CAS No. :	749234-11-5
Formula:	C ₉ H ₇ Br ₄ N ₃
Molecular Weight:	476.79
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	DMAT (Casein kinase II Inhibitor) is a potent and specific inhibitor of CK2(IC ₅₀ value of 130 nM).
Targets(IC ₅₀)	Casein Kinase
In vivo	DMAT blocks cell growth and induces cell death in cancer cells, both in culture and in mouse xenografts[1][2].

Solubility Information

Solubility	DMSO: 50 mg/mL (104.87 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (5.24 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0974 mL	10.4868 mL	20.9736 mL
5 mM	0.4195 mL	2.0974 mL	4.1947 mL
10 mM	0.2097 mL	1.0487 mL	2.0974 mL
50 mM	0.0419 mL	0.2097 mL	0.4195 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Lawnicka H , Kowalewicz-Kulbat M , Sicinska P , et al. Anti-neoplastic effect of protein kinase CK2 inhibitor, 2-dimethylamino-4,5,6,7-tetrabromobenzimidazole (DMAT), on growth and hormonal activity of human adrenocortical carcinoma cell line (H295R) in vitro[J]. Cell & Tissue Research, 2010, 340(2):371-379.

Sass, Gabriele. Inhibition of experimental HCC growth in mice by use of the kinase inhibitor DMAT[J]. International Journal of Oncology, 2011, 39(2).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481