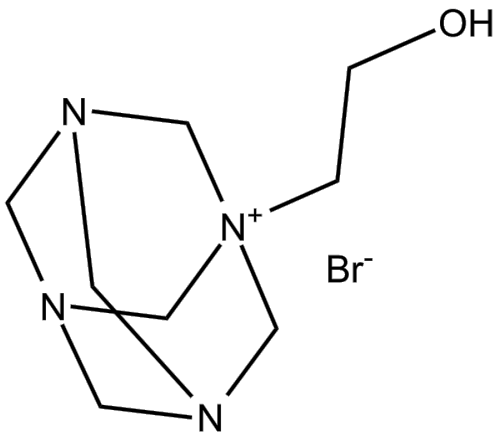
Product Data Sheet

Product Name: Y 11
Cat. No.: GC14489

Chemical Properties

Cas. No.	1086639-59-9		
Chemical Name	1-(2-hydroxyethyl)-1,3,5,7-tetraazaadamantan-1-ium bromide		
SMILES	OCC[N+]12CN3CN(C1)CN(C2)C3.[Br-]		
Formula	$C_8H_{17}N_4OBr$	M.Wt	265.15
Solubility	10mg/mL in DMSO, 0.3mg/mL in DMF	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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

Focal adhesion kinases (FAKs) are non-receptor tyrosine kinases that play roles in regulating diverse processes, including cell adhesion, spreading, migration, proliferation, and apoptosis. They are over-expressed in many types of cancer. Y11 inhibits FAK1 autophosphorylation by blocking phosphorylation of Y397.[1] At 100 µM, it was shown to decrease cell viability of T47D breast cancer

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and C8161 melanoma cell lines.[1]

Reference:

[1]. Golubovskaya, V.M., Nyberg, C., Zheng, M., et al. A small molecule inhibitor, 1,2,4,5-benzenetetraamine tetrahydrochloride, targeting the Y397 site of focal adhesion kinase decreases tumor growth. J. Med. Chem. 51(23), 7405-7416 (2008).