
Product Data Sheet

Product Name: BODIPY aminoacetaldehyde

Cat. No.: GC60092

Chemical Properties

Cas. No. 247069-94-9

SMILES [F-][B+3]1([N-]2C(C=C(C(C)=C3)[N]1=C3C)=CC=C2CCC(NCC=O)=O)[F-]

Formula C₁₆H₁₈BF₂N₃O₂ M.Wt 333.14

Solubility Storage

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

BODIPY aminoacetaldehyde (BAAA) is a fluorescent substrate for both murine and human aldehyde dehydrogenase (ALDH). BODIPY aminoacetaldehyde consists of an aminoacetaldehyde moiety bonded to the BODIPY fluorochrome and can be used to label stem cells[1].

When combined with inhibition of multidrug resistance, a population termed the SSCloALDHbr population could be readily fractionated from umbilical cord blood (UCB) mononuclear cells on the basis of high BODIPY aminoacetaldehyde (BAAA) staining intensity and low orthogonal light scattering[1].

[1]. R W Storms, et al. Isolation of primitive human hematopoietic progenitors on the basis of aldehyde dehydrogenase activity. Proc Natl Acad Sci U S A. 1999 Aug 3;96(16):9118-23.

Caution: Product has not been fully validated for medical applications. For research use only.

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