

Product Data Sheet

Product Name: NS19504

Cat. No.: GC38826

Chemical Properties

Cas. No. 327062-46-4

SMILES NC1=NC=C(S1)CC2=CC=C(Br)C=C2

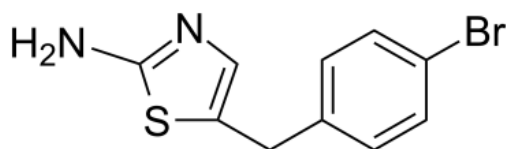
Formula $C_{10}H_9BrN_2S$ M.Wt 269.16

Solubility DMSO: 250 mg/mL (928.82 mM) 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

NS19504 is a Ca^{2+} -activated K^+ channel (BK channel, $KCa_{1.1}$ channel) activator ($EC_{50}=11.0 \mu M$) with relaxing effect on bladder smooth muscle spontaneous phasic contractions[1].

NS19504 increases BK currents in freshly isolated guinea pig bladder smooth muscle cells and whole-cell. NS19504 increases the whole-cell currents response to 127 %, 194 %, 258 %, 561 % of control at a concentration of 0.32 μM , 1.0 μM , 3.2 μM and 10 μM , respectively[1].

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

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[1]. Nausch B, et al. NS19504: a novel BK channel activator with relaxing effect on bladder smooth muscle spontaneous phasic contractions. J Pharmacol Exp Ther. 2014 Sep;350(3):520-30.

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